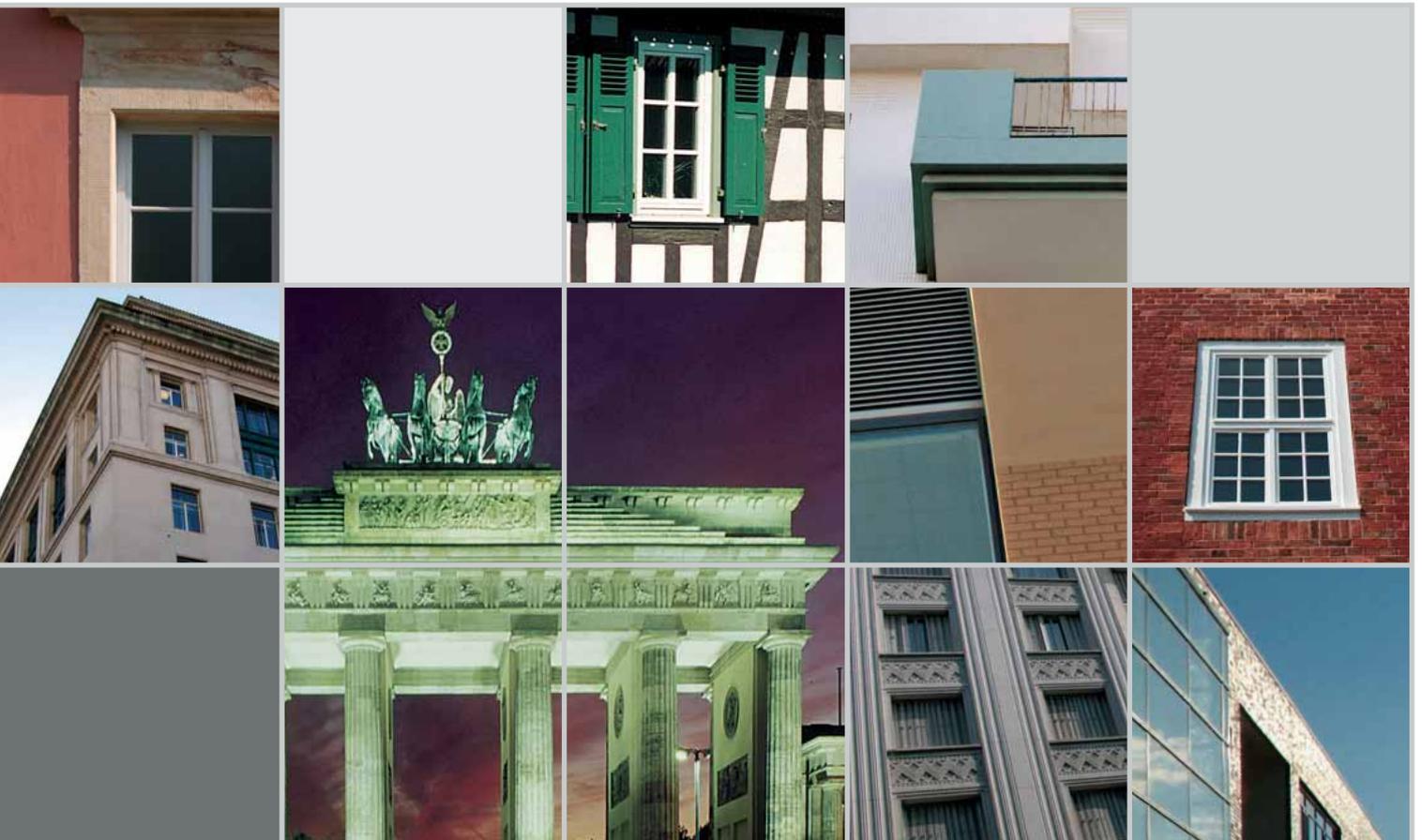


FAÇADE PROTECTION & REFURBISHMENT

An individual system for every façade





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BUILDING FAÇADE PROTECTION

Lasting protection means lasting investment

THE FAÇADE SPECIALIST

The façade is known as the face of a building (and even the company that owns it). It certainly has the major share in the appearance and impact of a building – but building façades are as variable and individual as peoples faces are. And they need to be cared for and protected just as individually to maintain the value of the investment. Cosmetics alone are not enough, only comprehensive treatment and specific protection which is carefully matched to the different requirements and problem areas will produce durable and sustainable good appearance. Remmers is a unique specialist in building façades: The more individual and complex the structure and its problems, the more our strengths come to the fore – top class products and integrated systems, combined with our wealth of knowledge on the refurbishment of every building façade substrate.





INTEGRATED SOLUTIONS

Problem, Diagnosis, Therapy: This is the only real way for a doctor to help his “patient”. This applies equally to the preventative protection of modern façades and most of all to refurbishment and restoration of old buildings. Correct determination of all the main parameters and a proper condition survey and analysis are pre-requisites for the selection of the most appropriate individual refurbishment concept. On-the-spot individual advice is also indispensable. This is particularly true for façades that are made from combinations of different materials, including concrete render, brick, stone, timber and others. Remmers has the best integrated solutions whatever the combination of materials and their requirements.



INDIVIDUAL WATERPROOF PROTECTION

Waterproofing, water vapour permeability and driving rain resistance – water repellence – are also primary functions of the façade. As a result, over the last 50 years Remmers has become a technology and market leader in hydrophobic products and systems for all types of masonry, concrete brick, natural stone or combined façades. Remmers has also developed innovative processes for their application and refurbishment of façades already damaged by moisture.



COMPREHENSIVE RANGE

As complete problem solvers, façade cleaning products and protective coatings are also an important part of our range, together with ‘state of the art’ rapid repair systems for durable concrete refurbishment.

Remmers façade protection systems also include both mineral and silicone resin based coatings, advanced stone consolidating and strengthening solutions as well as unique stone restoration mortars. All of these Remmers system components are always perfectly matched, complimentary, practical and also designed for their ease of use on site.





HERITAGE PROTECTION

Remmers – The Number 1 in Europe

THE MOST PRESTIGIOUS DISCIPLINE

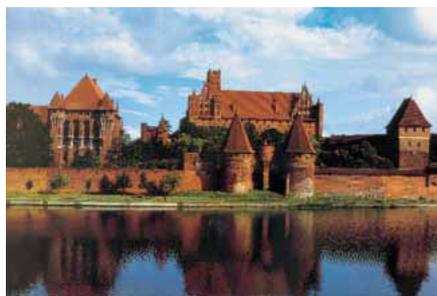
Conservation for heritage and monument protection is without doubt the highest discipline of building protection. Remmers is the clear No. 1 in Europe for this. Company founder Bernhard Remmers was passionately committed to it from the beginning. For more than 50 years now, there has been an extremely productive connection between the most demanding restoration requirements and the development of our heritage conservation and restoration systems. It has been a case of growing into the job. How else could all of the specific details – from the degree of weathering of different materials in different building environments – be analysed and incorporated in our solutions so meticulously?!



Cologne Cathedral



Neuschwanstein Castle



Marienburg, Poland

PRESERVING OUR CULTURAL HERITAGE

Heritage and Monument or Sculptor Conservators are quite rightly our most critical “clients”. Mistakes could easily lead to the loss of irreplaceable heritage. Precision, extreme care and a scientific approach are an absolute must in the refurbishment of these structures. The conservation concept and all of the objectives are always fully prepared in detail beforehand.

These can all vary widely: Restoration of the structure or conservation of the authentic original fabric? Remmers specialists understand heritage conservation requirements and also value the structures that have to be preserved.



OUTSTANDING EXPERTISE

During the past 50 years Remmers has worked on many of the most important heritage buildings in Europe. Technical competence and expertise unique in the industry, has been acquired in conjunction with most eminent international experts. With literally towering references: Europe's highest church tower on Ulm Cathedral (161 m), the British Houses of Parliament, Cologne Cathedral, St. Stephen's Cathedral in Vienna, St. Basil's Cathedral facing the Kremlin in Red Square and many more. Even in the tropical climate of Cambodia, at the legendary vast temple complex of Angkor Wat and on the Great Wall of China, Remmers' expertise and products have been well proven.

TAILORED SOLUTIONS

When historic stone structures deteriorate, sound advice is needed. By drawing on Remmers extensive range of products and systems, our specialists can tailor make solutions which are as individual as the structure in need of protection: specifically matched and compatible with the type of stone, the degree of weathering, the extent of deterioration and the ambient conditions, plus– above all – the special characteristics of the building, its occupants and its environment.

HISTORIC MONUMENT PROTECTION

Because conservation is far more than just a business to us, we set up the Bernhard Remmers Academy in Germany, where the latest international restoration knowledge and experience is gathered, exchanged and passed on. All of the profits the Academy makes are donated to the "German Foundation for Historic Monument Protection". Yet another contribution by Remmers, to the preservation of our cultural heritage.



Angkor Wat, Cambodia



REMMERS SYSTEM SOLUTIONS

The quick and easy route to complete façade protection

Brickwork Facades

- Cleaning
- Salt removal
- Restoring
- Pointing
- Preventing Organic Growth
- Water repelling
- Anti-graffiti
- Priming
- Coating
- Scumbling

Rendered façades

- Cleaning
- Strengthening
- Re-rendering and repair
- Stucco
- Preventing Organic Growth
- Priming
- Coating
- Scumbling

Natural stone façades

- Cleaning
- Salt removal
- Consolidating
- Preserving
- Strengthening
- Restoring
- Re-profiling
- Pointing
- Water repelling
- Anti-graffiti
- Scumbling



Half-timbered façades

Cleaning/paint removal

Timber infestation protection

Infill retouching

Sprayed infilling

Half-timbering render

Timber preservation

Opaque priming

Opaque timber coating

Transparent timber coating

Infill coating

Concrete façades

Cleaning

Crack grouting

Corrosion protection

Concrete replacement

Water repelling

Anti-graffiti

Coating

Scumbling

Foundation areas

Cleaning

Waterproofing

Rendering

Priming

Coating

Pre-drying

Void grouting

Injection

Plugging



Die Bauwerksabdichtung mit kunststoffmodifizierten Bitumen dickbeschichtungen (KMB) ist in DIN 18195 in den Teilen 4, 5 und 6 aufgenommen

BRICKWORK – REMMERS SYSTEM SOLUTION

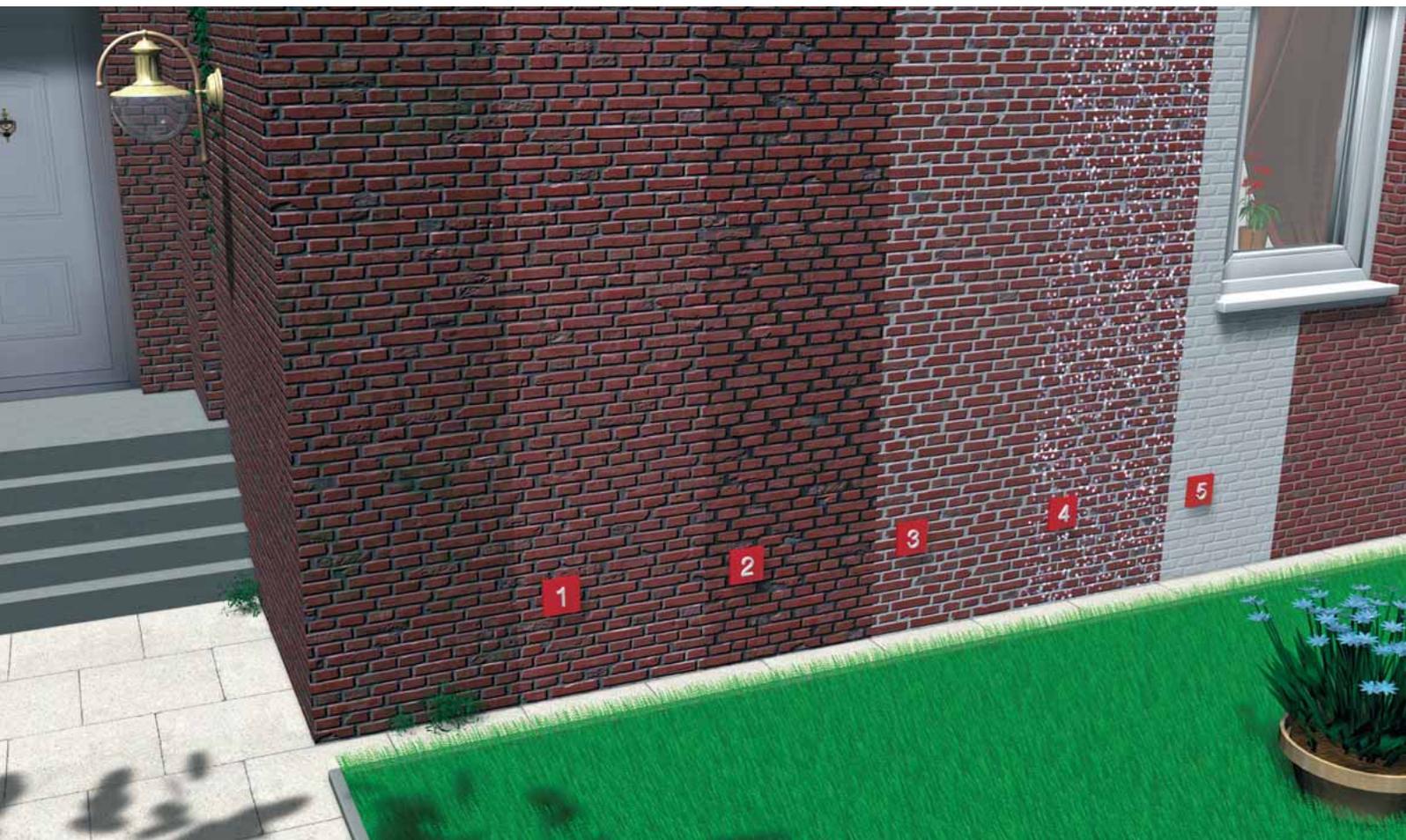
Treatment process

Cleaning
Salt removal
Stone repair and restoration
Pointing
Preventing organic growth
Water repelling
Anti-Graffiti
Priming
Coating
Scumbling

Remmers Products

Graffiti Remover Façade Cleaner Paste Microbiological Growth Remover Combi WR Clinker Cleaner AC Rotec® Whirljet equipment
Salt Remover Compress
Restoration mortar SK
Pointing Mortar Pointing Mortar TK Pointing Mortar ZF Pointing Mortar MG Pointing Slurry
Imprägnierung BFA
Funcosil SNL Funcosil SN Funcosil FC
Anti-Graffiti Coating
Primer SV Impregnating Primer
Silicone Resin Filler Paint LA Silicone Resin Paint LA
Historic Slurry Scumble Historic Scumble





THE BRICKWORK FAÇADE

Protection systems for a traditional building material

Brick is one of the most traditional building materials. The reason for this, apart from its visual qualities, was – and still is – the durability of this abundant material, which can hardly even be matched in its performance by concrete. But a brick façade consists not only of the bricks themselves but also of the joints between them. These joints are generally less durable than the brick and often become the weak points of the façade. High moisture absorption by one or both of these two materials is usually the trigger for the façade deterioration and damage.

This emphasises the importance of effective protection to equalise the absorbency of the brick and the jointing / pointing mortar, plus to reduce the total water absorption of the façade. This can be achieved with a correctly balanced and structured hydrophobic impregnation. The protection system for fair-faced brickwork developed by Remmers provides long-term protection against moisture penetration and guarantees longevity with the maximum durability.





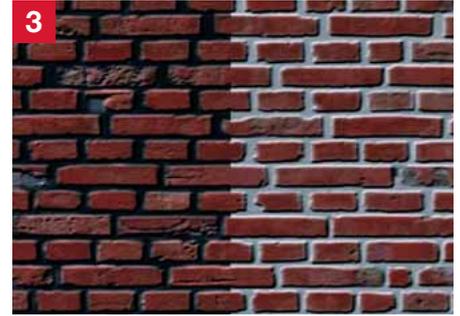
CLEANING & ACCUMULATED SALT REMOVAL

Cleaning is not just for the appearance. Layers of dirt store moisture and pollutants prevent the substrate drying out. Salts are removed from the surface with Remmers Salt Removal Compresses. The compress is applied like an elastoplast and is removed with the trapped salts after about 3 weeks.



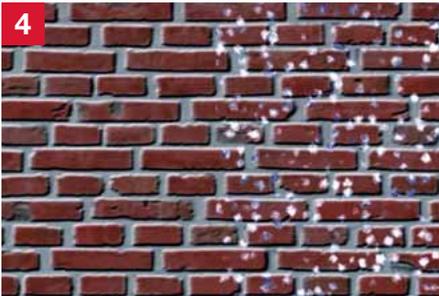
REMOVING DETERIORATED POINTING

Refurbishment of a brick façade almost always involves renewing the pointing, which has usually deteriorated. Except for when slurry pointing is appropriate, the existing joints must be raked out to a depth of 20 mm or twice the joint width.



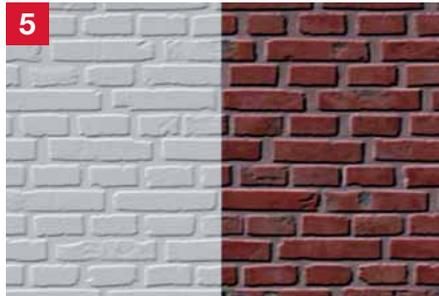
BRICK RESTORATION & POINTING

Damaged bricks are replaced or restored with Remmers Restoration Mortar SK. They are then repointed with a fresh mortar produced with the same Remmers binder plus the correct grading and colour of sand.



WATER REPELLING & ANTI-GRAFFITI PROTECTION

For preventative long-term protection against moss, fungi and algae growth, a liquid organic growth inhibitor can be applied before the hydrophobic agent, which can then be applied as either a protective liquid or a special gel / cream formulation. The semi-permanent Remmers anti-graffiti system can be used to make any future graffiti easier to remove.



COATING OR SCUMBLE

As an alternative to a hydrophobic treatment, the façade can also be made water repellent with a silicone resin based coating or a less visible silicone resin 'scumble'. This is now standard practice for some authorities.



REPOINTING THE BRICKS

In addition to traditional repointing by hand, the pointing mortars can be machine applied, particularly on large façades with wider joints. Remmers Pointing Mortar MG has been specially developed for machine application and is available in either 'capillary active' or 'hydrophobic' grades to suit both of these alternative requirements.



BRICK SLURRY POINTING

Greatly improved appearance, with the façade made weatherproof for the long term

The Funcosil Brick Slurry Pointing System consists essentially of two phases: Applying a new hydraulic pointing material and then making the whole façade water repellent with hydrophobic agents. The pointing material is a fine-grained slurry with a sulphate resistant cement binder. This guarantees high salt resistance, even on brickwork susceptible to attack from sulphates ie in gypsum salts, which is often the case with older buildings. The slurry pointing has very high adhesion due to the quality of the mortar and the application system. The process (brick slurry pointing) is also very economic because it offers considerable time savings. The time required for chiselling and raking out the joints, plus the possibility of damage to the bricks themselves is eliminated.

Much less work is required to apply the mortar into the joints than with a conventional pointing trowel. Another major advantage: even narrow joints

and small cracks (too narrow for a trowel) can be filled with mortar flush with the surface. Taking all of the time saving effects into account, an overall time and cost saving of at least 25% can be assumed.

Funcosil Brick Slurry Pointing has unique advantages:

- Joint renovation and water repellency for the whole façade
- Excellent adhesion
- Similar coefficient of water absorption for joints and bricks
- Time and cost saving compared with conventional pointing
- Improved thermal insulation of the dry façade



Initial impregnation, spray applied



Applying the slurry pointing mortar



Rough cleaning and mortar compaction



Further cleaning with special board



Final cleaning during the early stage of setting

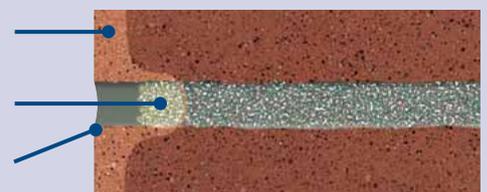


Final impregnation with Funcosil SNL

Brick made water repellent, the hydrophobic zone

Joint repaired with high adhesive strength and water repelling properties

Joint and brick flush with the surface (no more cracks, damaged brick edges etc.)





FUNCOSIL HYDROPHOBIC AGENTS

Reliable and durable water repellence

“Water is to blame for everything”

A large number of the mechanisms leading to building damage are directly or indirectly connected with the moisture absorption of the building material.

For example, the pollutant absorption of a material increases as moisture penetrates inside it. Salts are transported into the material in dissolved form; pollutants from the atmosphere are absorbed by rain (“acid rain”), which then carries them into the façade. Physical properties – particularly thermal conductivity – also change, rising dramatically and reducing insulation, as the moisture content increases.

Because water has such good heat conductivity, a reduction in the moisture content of a material always increases its thermal insulation properties. Additionally, a water repellent material applied on a single-skin brickwork façade, can result in a dew point adjustment within the fabric, that also greatly reduces the risk of mould forming indoors. Inadequate attention is also often paid to the fact that many building materials react to an increase in moisture content by losing strength. The damage processes associated with water and moisture are far more extensive and varied than the few major ones described here. Water repellence is

the only real answer to many of these damage mechanisms. With a Funcosil hydrophobic agent you can protect your bricks from further damage in future, improve the indoor environment and also save valuable energy.

Funcosil Façade Cream

- Supplied ready to use
- Easy to apply, overhead working is no problem
- Low material consumption per m²
- No losses due to material overspray or run off etc
- No time-consuming extra tasks such as protecting and cleaning the adjacent areas
- Long-term performance due to high active solids content
- A new standard in the economic impregnation of brickwork façades

Funcosil SNL Liquid

- Best penetration into highly absorbent substrates
- Outstanding long-term stability
- Proven for many decades



Adjacent surfaces such as windows and sills can be worked up to accurately due to the creamy gel consistency



Excellent water repelling properties of the treated surface



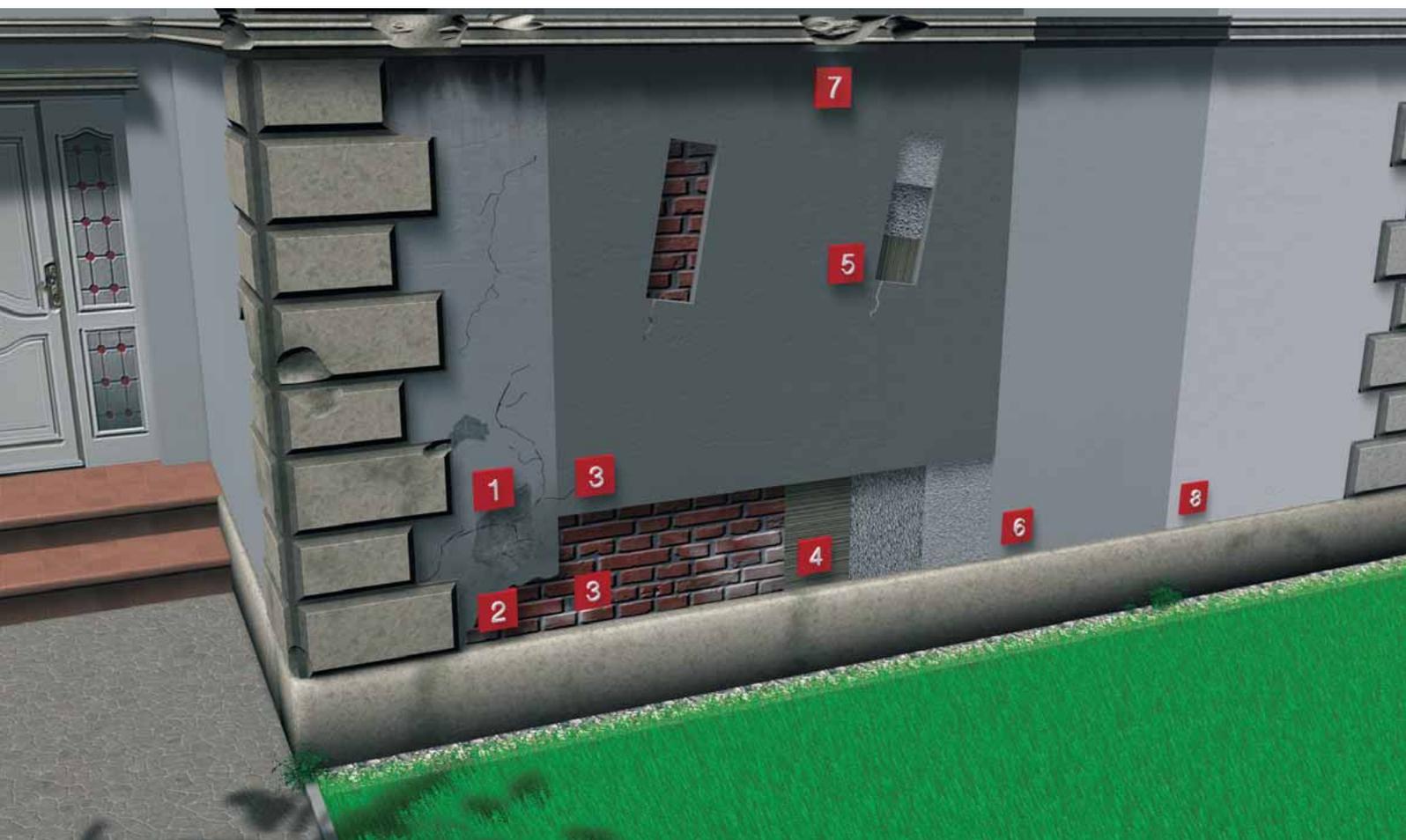
RENDER – REMMERS SYSTEM SOLUTIONS

Treatment process

Remmers products

Cleaning	Graffiti Remover Façade Cleaner Paste Microbiological Growth Remover Rotec® Whirljet equipment	
Strengthening	Silicate Strengthener	
Re-rendering and repair	Render base levelling	Base Plaster
	Splatterdash mortar/bond coat	Special Splatterdash Mortar
	Base render	Base render
	Thermal plaster	Thermal render
	Filling & bonding mortar	Bonding Mortar/Bonding Mortar S Multi-filler
	Fine plaster	Fine plaster
	Moulding and re-profiling plaster	Decorative Moulding Plaster
	Historic finish	Historic Finish Render
	Crack sealing	Silicone Resin Filler
Stucco	Coarse Tensile Mortar Fine Tensile Mortar Stucco	
Preventing microbiological growth	Impregnation BFA	
Priming	Impregnating Primer Hydro Penetrating Primer Primer SV Penetrating Primer Silicate primer D	
Coating	Silicone Resin Filler Paint LA Silicone Resin Paint LA Silicate Paint D	
Scumbling	Historic Slurry Scumble Historic Scumble	





THE RENDERED FAÇADE

Effective refurbishment for this popular type of façade

A rendered or part rendered façade has been popular throughout history. One of the reasons is its versatility of form and colour. The traditional mortar renders for façades are cementitious based and finish renders (EN Group II) are usually cement lime renders. There are also thermal insulation renders which consist of a thermally insulating base render and a water-repellent mineral finish plaster. They are used on solid walls and can combine good insulation with appropriate physical properties.

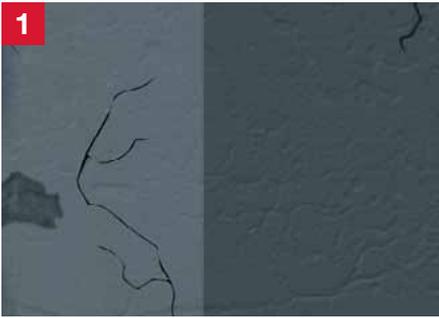
A rendered façade can age in complex ways. Changes in the weather can create extreme stress on and within the



wall structure. Cracks, water damage and separation of the façade layers leading to delamination or detachment can occur. Particularly at risk are darker areas, areas with alternating materials, decorative plaster features such as string courses, corners or angles, plus their coatings with different thermal expansion coefficients

or waterproofing properties. The render is also progressively stressed by moisture from internal condensation, rain absorption and the release of dissolved salts or rising capillary damp within the material.

To prevent deterioration with powdering, scouring, cracks and other defects in the render and its coatings, then it is important to have adequate roof overhangs, cornices, splash zone protection and damp-proof courses. All of these require regular inspection and maintenance, including the coatings which are of course vitally important for durability of the rendered facade.



1 CLEANING EXISTING RENDERED AREAS

If the existing render only needs to be recoated and not replaced, thorough cleaning is still essential to ensure adhesion of the new coating to the substrate.



2 REMOVING THE DAMAGED RENDER

If the old render is badly damaged, it must be completely removed, as shown in the example here.



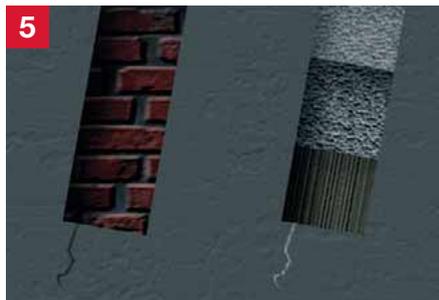
3 STRENGTHENING

The render base and the old render may have to be strengthened or consolidated before carrying out further works. This can be done with Remmers Silicate Strengthening solution and on historic heritage buildings with Remmers KSE 300 E.



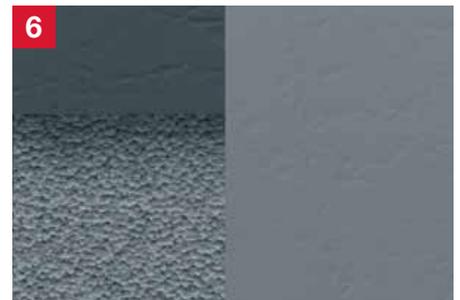
4 LEVELLING & BASE RENDER

The substrate must be as flat or level as possible, so that the render cures uniformly without cracking. Uneven areas and any cavities, e.g. opened cracks etc., are first levelled with Remmers base render. This is followed by the special splatterdash bond coat and the base render.



5 REPAIRING CRACKS

Static cracks in the render can generally be sealed by simply widening them, priming with Penetrating Primer and filling with Silicone Resin Filler. Larger cracks through the render are opened wide (unless complete isolation and structural joint treatment is necessary due to the likelihood of further movement) and primed with Penetrating Primer and rendered over with Bonding Mortar and fabric scrims.



6 FINISHING RENDER

The surface is smoothed and the façade is given its final texture with the mineral finishes Fine Render and Decorative Render L which are easy to apply by hand or with suitable spray machines.



7 STUCCO

Damaged stucco elements can either be retouched in situ with Remmers Coarse and Fine Tensile Mortar or removed and restored in the workshop with Remmers Stucco and then reattached later.



8 COATING OR SCUMBLING

The final coating is either opaque or transparent. Using the highly vapour diffusible and water repellent silicone resin system with Remmers Silicone Resin Paint LA or Historic Scumble or the Remmers Mineral Paint Silicate Paint D.



CRACK REPAIRS

Partial and full surface refurbishment options

Crack damage may be minor, but if it is not repaired further damage to the building fabric is inevitable in the longer term – usually caused by the expansion or contraction of the render substrate and increased moisture penetration e.g. on combined substrate masonry facades or materials which are particularly prone to moisture absorption. Common causes of cracks on façades are variable thermal conductivity and exposure (shade etc), differential movement of the building or the render substrates (e.g. settlement), incorrect preparation of the render base or renders which are too hard/brittle (high compressive, low tensile strengths).

Crack refurbishment possibilities

Static but not dynamic cracks (no further movement anticipated):

- Widen the crack
- Prime the crack edges with a strengthening impregnation
- Fill the crack with an elastic, resin bound fine mortar (Silicone Resin Filler)

Dynamic cracks with low deformation or residual deformation (slight future movement is possible)

- Remove the render on both sides to a width of about 200 mm
- Apply a dividing layer to separate the finishing render and the render base
- Insert reinforcing mesh in the render base
- Apply the render in two layers. Base render: composite reinforced mortar; finishing render



Blind cracks



Corner settlement cracks



Shrinkage cracks



Brick or block joint reflective cracks



Drying cracks



Structural/shear cracks



SILICONE RESIN PAINT LA

Remmers Silicone Resin Paint LA – proven for 30 years

A façade paint with these properties achieves a “Gore-Tex” effect, so to speak. What we see as the best approach for all-weather clothing is also best for the durable weather protection of façades.



Advantages of Remmers Silicone Resin Paint

- The outstanding characteristic of Remmers Silicone Resin Paint LA is the combination of maximum water vapour permeability and low capillary water absorption. Giving the highest results under the façade protection classification of Dr. Künzel.
- Also suitable for mortar rendered areas
- Suitable for over coating old coating areas of any kind (except for highly elastic and glossy systems)
- Easy to use by any method of application, with excellent opacity and coverage
- Colour-fast inorganic pigments enable colours to be mixed very precisely for both traditional and modern façades
- Good brush application and a variety of scumble options (Historic Scumble and Historic Slurry Scumble)
- Suitable over limewash coatings
- Very low dirt pick up

Applications

- All mineral substrates in the heritage preservation and façade protection sectors
- All mineral pebble-dashes
- Mortar rendered areas
- Fair-faced blockwork
- Fair-faced brickwork
- Composite thermal insulation systems
- Synthetic resin renders
- Areas with differential moisture absorption properties (e.g. after rendering)
- Refurbished rendered areas
- Problem areas (foundations and external basement exits)

If in doubt, a silicone resin paint should always be selected for façades with previous vapour diffusion damage, which is quite easy to identify from the old coating. This will provide reliable protection even from driving rain and the high water vapour permeability providing a future safety factor.



NATURAL STONE – REMMERS SYSTEM SOLUTIONS

Treatment process

Cleaning
Salt removal
Stabilising & consolidation
Hygro swelling reduction
Strengthening
Repair & Restoration
Reprofiling
Pointing
Water repelling
Anti-Graffiti protection
Scumbling

Remmers Products

Graffiti Remover Façade Cleaning Paste Microbiological Growth Remover Rotec® Whirljet equipment
Salt Removal Compress
Hole Suspension Historic Grouting Mortar
Antihygro
KSE 100 KSE 300 KSE 300 E KSE 300 HV
Restoration Mortar SK Restoration Mortar, pourable
Silicone AFM Thickening Additive AFM
Pointing Mortar Pointing Mortar TK Pointing Mortar ZF Historic Pointing Mortar
Funcosil SNL Funcosil SL Funcosil FC
Anti-Graffiti
Historic Slurry Scumble Historic Scumble



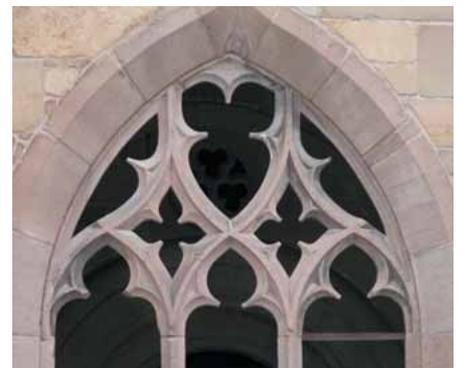


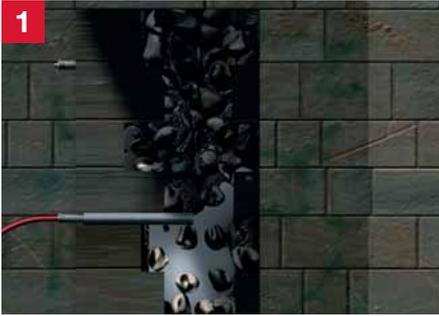
THE NATURAL STONE FAÇADE

From historic heritage buildings to modern family houses

What is more beautiful than an old stone wall of granite, limestone or sandstone? Not so many houses are made of stone nowadays because supplies are limited and they are much more expensive than “normal” buildings. So it is important to keep the stone buildings already in existence in a good condition. Apart from prestigious heritage buildings such as Cologne Cathedral where teams of restorers and stonemasons have a lifetime’s work, the focus is now more on old urban residential and commercial buildings with their stone mouldings and window

reveals. Unlike brick and modern building materials, with natural stone there is a great difference not only in the form, colour and surface texture of the blocks but also in their physical and chemical characteristics. A detailed inspection is always essential. With natural stone in particular, conservation of the original material and matching of the new restoration materials are vitally important for long-term conservation of the fabric. The experience gained by Remmers on prestigious buildings provides security for clients with these “smaller” but no less important projects.





MASONRY CONSOLIDATION

To increase the stability and consolidate loose masonry with voids, the voids are low pressure grouted with Remmers Hole Suspension or Remmers Historic Grouting Mortar (according to the German WTA Worksheet 4-3-98-D).



CLEANING AND ACCUMULATED SALT REMOVAL

Cleaning is not just for the appearance: layers of dirt store moisture and pollutants and prevent the substrate drying out. Salts are removed from the surface area with Remmers Salt Removal Compresses. The compress is applied like an elastoplast and is removed with the absorbed salts after about 3 weeks.



REMOVING POINTING MORTAR

Nearly every refurbishment of a natural stone façade involves renewal of the pointing which has usually deteriorated. Generally the joints must be raked out to a depth of 20 mm or twice the joint width.



EXPANSIVE SWELLING REDUCTION

In many types of stone a major cause of damage is "hygric expansion and contraction" which is caused by swellable clay particles within the stone (there is a characteristic earthy smell when the stone is wet). The degree and rate of swelling can be reduced by treating the stone with the unique Remmers Antihydro Swelling Reducer, currently the only one of its kind.



STRENGTHENING

The purpose of strengthening is to restore the original strength characteristics by the targeted addition of suitable binders. Remmers have a large range of silica ester (KSE) based stone strengthening solutions available for this special purpose.



STONE RESTORATION & POINTING

Damaged stone blocks are replaced or restored with Remmers Restoration Mortar SK. They are repointed with a pointing mortar produced with the same binder, using a suitable grading and colour of sands.



WATER REPELLENCE & ANTI-GRAFFITI PROTECTION

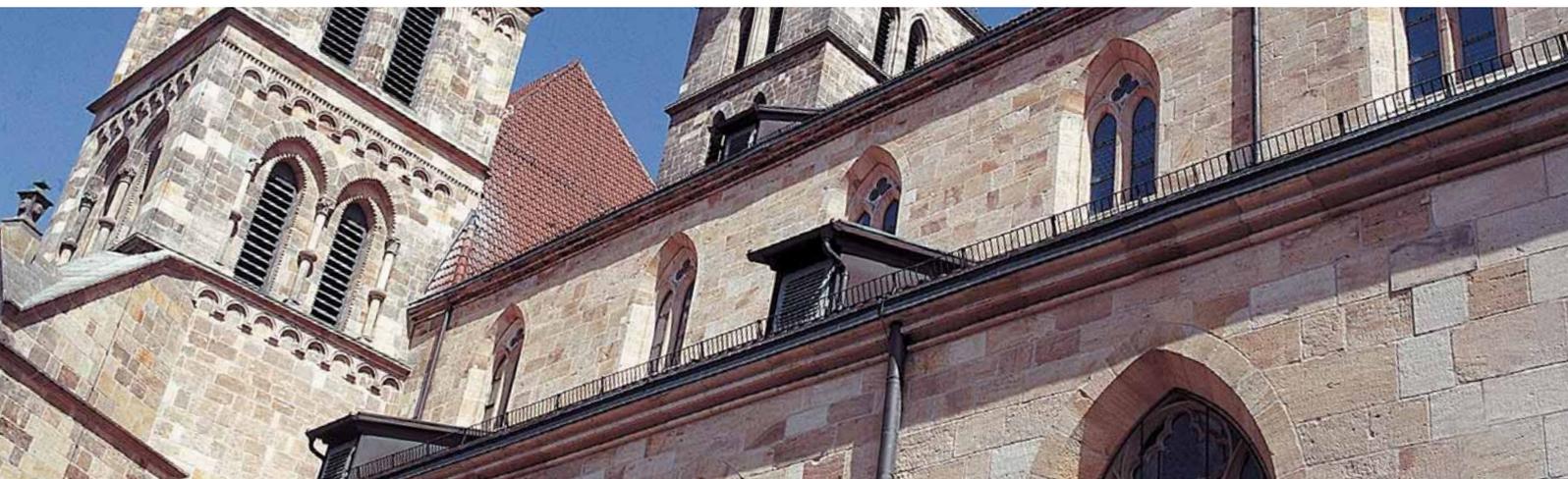
For preventative long term protection against moss, mould and algae growth, Remmers anti microbiological Impregnation BFA can be applied before the hydrophobic agent. Water repellence is always the final stage of restoration. The semi-permanent Remmers Anti-graffiti which makes any future graffiti easier to remove can also be used.



SCUMBLING OR SLURRY

SCUMBLING

Many types of stone cannot be given an adequate hydrophobic impregnation due to their open structure. If water repellence is necessary however, it can be achieved by using a surface scumble system. Remmers Historic Scumble and Slurry Scumble were specially developed for this purpose.



KSE 100 / 300 / 300 E / 300 HV

The right consolidating and strengthening combination for every type of stone

Remmers stone consolidating and strengthening solutions are used worldwide to protect valuable cultural heritage buildings and structures. Many research and development projects for important buildings with specific requirements have helped us to generate a complete range which can provide solutions for every requirement.

The table below is designed as an aid to the selection of a suitable stone strengthening solution or stone strengthening combination treatment for the widespread limestones and sandstones that commonly require this treatment. This list is intended as a useful guide, but the specific treatment required on a particular structure or type of stone, can

only be determined by a preliminary survey (using depth profile measurements).

Characteristics and advantages

- The correct strengthening system for every type of stone
- Used successfully on some of the most important buildings in the world
- Non hydrophobic
- High depths of penetration
- Silica ester (KSE) based
- Partial or full surface consolidation and strengthening works are possible
- The products form strengthening silica gel structures in the voids, which matches the nature of the original sandstone and limestone binders



Absorbency	Hardness	Stone type	1 st operation	2 nd operation	3 rd operation
Medium to high	Quite hard	Sandstone, sandy limestone	KSE 100	KSE 300	
Medium to high	Quite soft	Sandstone, sandy limestone	KSE 100	KSE 300 E	
Medium to high	Soft to hard	Limestone	KSE 100	KSE 300 HV	
Quite low	Soft to hard	Sandstone, limestone, sandy limestone	KSE 100		



RESTORATION MORTAR SK

Seamless restoration with a natural stone appearance



The Remmers restoration mortar system has been specially developed to repair, restore and re-profile natural stone building materials. So it can be adapted to the different characteristics required for this wide range of materials, in terms of strength, colour and layer thickness etc. The most advanced and efficient of these products is Remmers Restoration Mortar SK, which can also be feather edged “to nothing” to match complex details and profile requirements. Therefore damaged areas of natural stone, no longer have to be broken out with excessive removal of sound stone to a minimum 20 – 30 mm thickness. Instead, this advanced mortar can be applied directly to the sound, cleaned and prepared surfaces, simply following the

irregular pattern of the profile after removal of just the damaged material.

Characteristics and advantages

- Large range of materials for optimum technical adaptation to the substrate
- High performance binders
- Low free alkali content
- Excellent adhesion
- Different strength grades
- Different gradings for different layer thicknesses
- Almost any colour available (with Remmers unique colour matching service)
- Suitable for all mineral building substrates (brick, render and concrete as well as natural or reconstituted stone)

	Aggregate grading [mm] Fine	Aggregate grading [mm] Medium [standard]	Aggregate grading [mm] Coarse
Strength [N/mm ²] Standard Grade (hard)	< 0,2 10 – 12	< 0,5 12	< 2,0 12 – 13
Strength [N/mm ²] Soft Grade	< 0,2 4 – 6	< 0,5 5 – 7	< 2,0 6 – 8



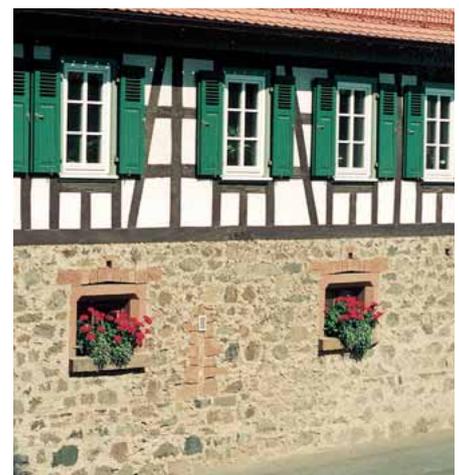
HALF-TIMBERING – REMMERS SYSTEM SOLUTIONS

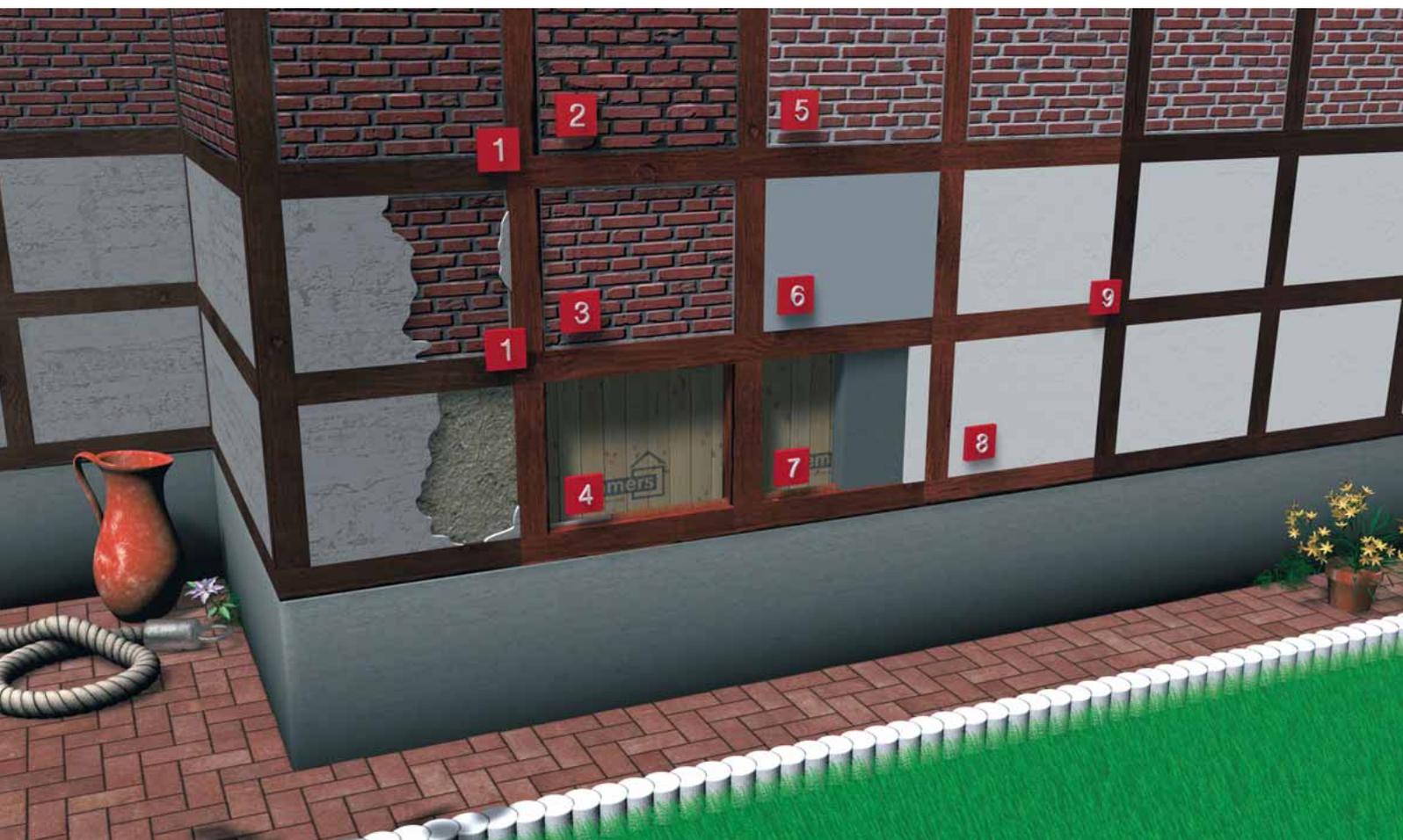
Treatment process

Cleaning/ Old coatings removal
Protection against infestation
Infill retouching
Sprayed infill
Half-timbering render
Timber preservation
Opaque priming
Opaque timber coating
Transparent timber coating
Infill coating

Remmers products

Graffiti Remover Stripper Façade Cleaning Paste Rotec® Whirljet equipment
Multi GS Anti-Insect HWT Adolit Woodworm Free Adolit M Liquid
Pointing Mortar ZF Half-timbering Finish Render Restoration Mortar SK
Half-timbering Mortar
Half-timbering Finish Render
Impregnating Primer GN
Aidol Insulating Primer Universal Primer
Linseed Oil Paint HS Rofalin Acrylic/Acrylic Plus
Aidol HK Scumble Aidol Long Lasting Scumble
Silicate Strengthener Mineral Paint OH Historic Lime Filler Historic Lime Paint Historic Lime Slurry





THE HALF TIMBERED FAÇADE

The refurbishment system for total protection

Europe has in its building stocks a large number of historic half-timbered buildings that have a high economic and cultural value. This area of our heritage is unfortunately now endangered due to the past lack of care and inappropriate refurbishment. The care and maintenance of half-timbered buildings used to be a simple, natural job for users, owners and tradesmen. Everyone involved knew the properties of the few materials used and locally always available. Nowadays the situation is different. The standards of comfortable living have risen considerably; and the type and number of building materials on offer have increased

even more. Yet the wealth of experienced people and the numbers of specialists with the know-how about half-timbering have both fallen nearly to zero over the last two generations. The consequences have been dramatic. By far the greatest part of the damage that can now be seen on half-timbered buildings originates from faulty albeit often well intentioned work over recent decades. The Federal Government of Germany and many other institutions including the Bernard Remmers Academy, have now helped to fill the knowledge gap. The results are now available for all of the different requirements but these have not yet

fully reached specifiers, authorities and the planning offices, the contracting companies and ultimately the restoration sites.

With the Remmers half-timbering refurbishment system, it is now possible to fully overcome this previous knowledge deficit for the first time. This complete system includes timber preservatives and coatings, infill mortars and specialised coating materials for these infills. So there is now a fully coordinated and technically correct product range for the restoration of half-timbered facades, which can help to sustain this part of our heritage long term, to maintain it and preserve it for the future.



TIMBER PREPARATION

Half-timbering often has many layers of paint which have to be removed. Old emulsion coatings with Remmers Graffiti Remover and old oil-based paints with Remmers Stripper.



FAIR-FACED BRICK INFILL

PREPARATION

Cleaning is not just for the appearance: layers of dirt often retain moisture and pollutants and these must therefore be removed. Damaged joints must be raked out to a minimum depth of 20 mm or twice the joint width.



RENDERED BRICK INFILL

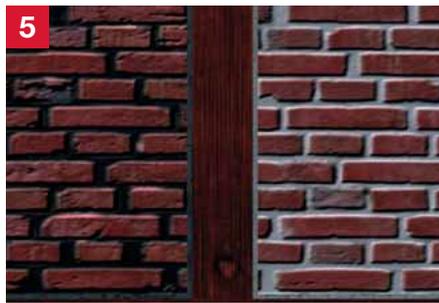
PREPARATION

Rendered surfaces are often so badly damaged that removal of the old render is essential. Damaged bricks and joints under the render must also be removed.



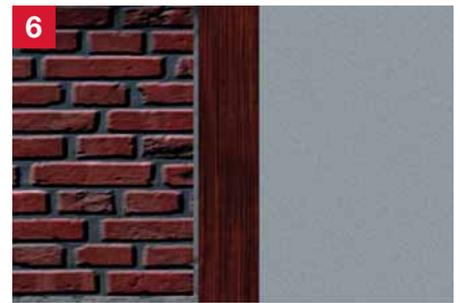
COB INFILL PREPARATION

Easily damaged cob (unburnt bricks with straw) infills can and should be repaired with traditional cob. Badly damaged infills must be completely removed.



FAIR-FACED BRICK INFILLS – REPOINTING & RESTORING

The repointing is done with Remmers Pointing Mortar ZF, a soft, lime based mortar. Defective bricks are replaced or made good with Remmers Restoration Mortar SK.



RENDERED BRICK INFILL

RECONSTRUCTION

After repointing to level with Pointing Mortar ZF and Restoration Mortar SK, the fully compatible Remmers Half-timbering Finish Render is applied.



RENDERED COB INFILL RECONSTRUCTION

The reconstruction is done by spray-applied infilling with Remmers Half-timbering Mortar. The mortar is sprayed onto shuttering erected from the inside. Suitable backing laths must first be fixed on the reveal sides of the timber beams.



INFILL COATING

The infills are finally coated with either Remmers Mineral Paint OH or the Remmers Historic Lime Paint system.



TIMBER COATING

After Remmers timber preservative treatment where necessary, the timber is coated with appropriate Remmers paints or scumbles, either opaque or transparent grades are available to suit all requirements.



LINSEED OIL PAINT HS & MINERAL PAINT OH

The coloured highlights of the half-timbered façade

Linseed oil paint HS

Linseed oil was used for centuries to make paint because it was readily available and it has excellent 'drying' properties. At Remmers we have now effectively rediscovered and further developed it as a binder for a high quality, semi-gloss paint for half-timbered facades.

Characteristics and advantages

- Main binder linseed oil, now alkyd resin reinforced for a longer life
- High opacity and coverage
- High solids content
- High colour retention and weathering resistance with permanent elasticity
- Easy to use with a long pot life



FT 16900
Black



FT 16902
Blue grey



FT 16904
Oxblood red



FT 16906
Brown



FT 16908
Gold ochre



FT 16901
Grey



FT 16903
Red



FT 16905
Red brown



FT 16907
Green umbra



FT 16909
Blue



White

Mineral paint OH

Very high performance specifications must be defined for the capillarity and vapour permeability of all the materials in the half-timbered façade infills – the infill material, the render and the coatings – so that the moisture penetrating from outside can be quickly dissipated. For the infill we recommend our specially formulated, non water repellent, one-part mineral paint OH. The principle of this silicate paint is based on silicification of the water glass paint binder within the substrate. A strong, inseparable mineral bond is then formed between the paint and the render. The high water vapour and capillary permeability of mineral paint OH ensures that moisture ingress can be released outside again unhindered, mainly through the connection joint between the infill and the timber surrounding. So water does not accumulate in the infill and cannot damage the timbers.



HALF-TIMBERING MORTAR

The practical refurbishment technique for the infill



Remmers Half-timbering Mortar was specially developed for the specific requirements called for in this field. For the user it is extremely important that the mortar can be applied mechanically by spray and that each infill can be produced in one operation – meaning thick layers can be applied. Since many original half-timbered buildings are often only single skin, the Remmers Half-timbering Mortar has already assisted many occupants with the benefit of its additional sound and heat insulating properties.

Characteristics and advantages

- Mechanical application (sprayable)
- Thick layers can be applied (single layer up to 80 mm)
- Capillary conductivity and high vapour diffusibility suitable for half-timbering
- Heat and sound insulating

The main ingress point for rainwater is the gap or joint between the infill and the timber framework, which is typical in half-timbering façade construction. Due to the composition and low E-modulus of the Remmers Half-timbering Mortar, its shrinkage and cracking is greatly reduced. This minimises the crack widths in this boundary area between the timber frame and the new infill mortar.

The result of having much smaller cracks, is that much less rainwater is initially absorbed into the structure. Due to the specially formulated water transport capacity, this small quantity of water can quickly reach the infill surface again and evaporate. Therefore Remmers Half-timbering Mortar ensures that the infill material dries out quickly, which then helps to maintain the thermal and structural values of the whole half-timbered building.

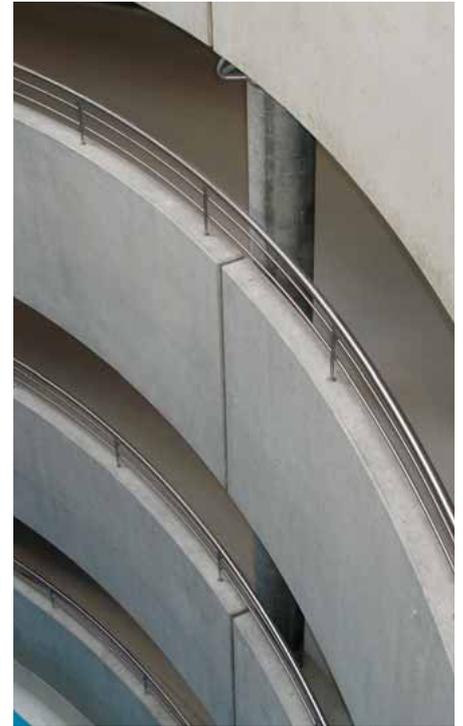


REINFORCED CONCRETE – REMMERS SYSTEM SOLUTIONS

Treatment process

Remmers products

Cleaning	<ul style="list-style-type: none"> Graffiti Remover Façade Cleaning Paste Microbiological Growth Remover Rotec® Whirljet equipment
Crack sealing	<ul style="list-style-type: none"> Injection Resin 100 2-part PUR Injection Resin
Corrosion protection	<ul style="list-style-type: none"> Rust Inhibitor M 2-part Epoxy Rust Inhibitor Migratory Corrosion Inhibitor
Concrete repair and replacement	<ul style="list-style-type: none"> Betofix RM Mortars Betofix Surface Filler Viscacid PCC Primer Viscacid PCC Mortar N Viscacid PCC Surface Filler N 2-part Epoxy Bonding Agent 2-part Epoxy Refurbishment Mortar 2-part Epoxy Repair Mortar
Water repellence	<ul style="list-style-type: none"> Funcosil BI Funcosil IC Funcosil C 40
Anti-Graffiti protection	<ul style="list-style-type: none"> Anti-Graffiti
Protective coating	<ul style="list-style-type: none"> Concrete Acrylic
Protective scumbling	<ul style="list-style-type: none"> Historic Slurry Scumble





THE REINFORCED CONCRETE FAÇADE

Professional systems for technically correct rapid repair and refurbishment

Concrete is the favourite building material of our time for its well known cost: performance and design flexibility reasons. Despite its high strengths and resistance, damage can still occur and require refurbishment and additional protection. The main damage mechanism is expansive reinforcement corrosion, due to high carbonation depths or the penetration of chlorides (e.g. from de-icing salts). There can also be a lot of damage due to continuous moisture penetration through cracks, this too can cause steel corrosion and frost damage of the concrete. Remmers

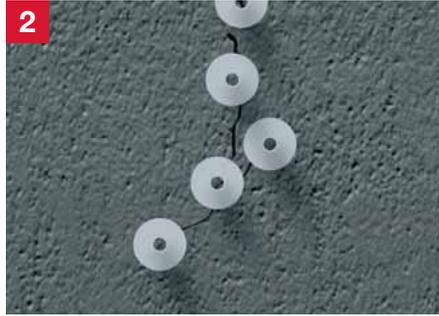
systems can provide cosmetic, structural and heritage concrete repairs and future protection, all of which are virtually unrivalled, particularly for their speed. All of Remmers products and systems for the repair and protection of reinforced concrete are designed and tested to the latest international standards. Specifically in accordance with EN 1504 The Repair and Protection of Concrete, which is currently in the process of being rolled out in all European countries, where it now replaces all previous national standards, test methods and procedures.





CLEANING

Cleaning is not just for the appearance. Layers of dirt retain moisture and pollutants and prevent the substrate drying out.



CRACK SEALING

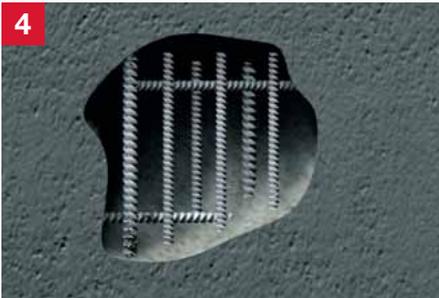
To ensure a good bond and waterproof sealing, cracks are grouted with Remmers Injection Resin 100. If some elasticity is still required between the crack faces, then Remmers 2-part PUR Injection Resin is used as an alternative.



REMOVING CONCRETE OVER

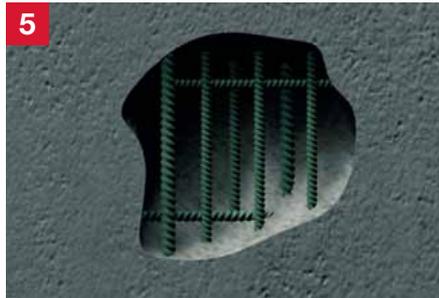
CORRODING STEEL

Any actively corroding reinforcement is completely exposed.



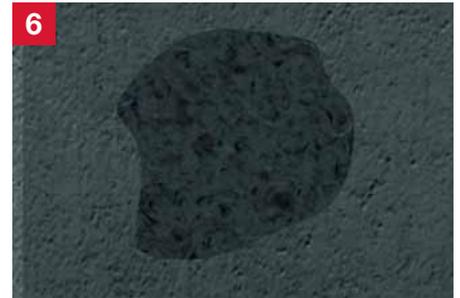
REMOVING RUST AND CORROSION PRODUCTS

Rust is removed mechanically from the corroded reinforcement to a level of cleanliness approximately equivalent to SA 2½.



CORROSION PROTECTION

Betofix RM, improved with Remmers Rust Inhibitor M, is used as an anti-corrosive slurry coating on the cleaned reinforcement bars. The slurry coated area can then be repaired with Betofix RM Mortar only 30 minutes after its application. Migratory Corrosion Inhibitor can then be applied over the whole repaired and unrepaired surfaces as required.



CONCRETE REPAIR &

REPLACEMENT

The broken out area can be repaired with Betofix RM Mortar in a single layer in one operation. The new concrete surface protection can then be applied after only 3 hours.



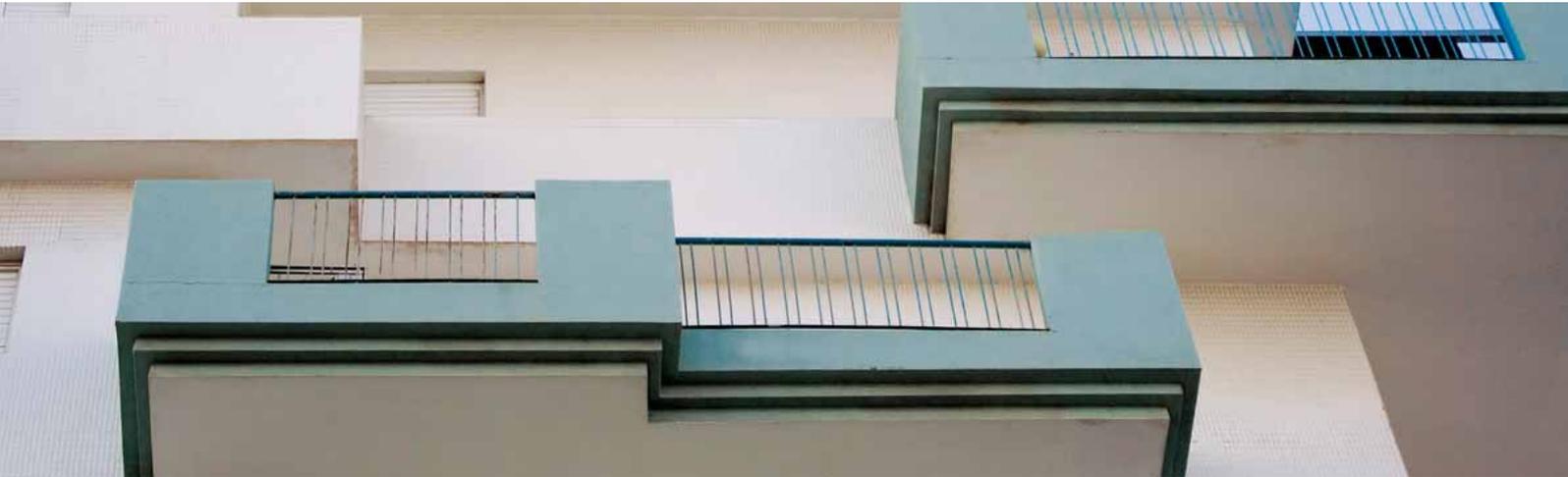
WATER REPELLENCE & ANTI-GRAFFITI PROTECTION

To protect the reinforcement from further corrosion, a hydrophobic agent can be used. This prevents water penetrating into the concrete to corrode the steel. Remmers Anti-Graffiti can be used to make any future graffiti easier to remove.



PROTECTIVE COATING OR SCUMBLING

Remmers Concrete Acrylic, an opaque, matt, pure acrylic based protective coating and Remmers Historic Slurry Scumble, a semi-opaque, silicone resin based coating, can be used as anti carbonation protection for new, repaired and historic or listed concrete buildings and structures. They also provide water repellence.



BETOFIX RM

The fastest and most reliable complete concrete repair system

Time is money – and not just when things have to go really quickly. Remmers Betofix RM sets new standards in concrete refurbishment. The whole refurbishment system can be completed from steel corrosion protection through to protective surface coating in one day. For smaller repair projects in particular, such as on small balcony decks or parapets, there is no longer any need for more than one site visit. So especially here, it is even more important to have a rapid system with just a few coordinated products with good application and easy to use characteristics.

Characteristics and advantages:

- Concrete refurbishment from steel corrosion protection to protective surface coating in one day
- Betofix RM combines the properties of four products (primer, bond coat, repair mortar and levelling mortar)
- Surface repair and levelling with the same material
- An additional bond coat is not necessary due to the excellent substrate adhesion (up to 4 N/mm²)
- When improved with Remmers Rust Inhibitor M, it can also be used as an anti-corrosive coating
- Overpaintable after only 2-3 hours
- Unique rapid refurbishment system that conforms to EN 1504
- Cures without cracking, even in higher layer thicknesses
- Easy overhead application
- Can be tooled and finished





FUNCOSIL IC

The simple and technically high performance concrete protection



Using water repellence of the building materials is a method of protecting structures which has been known for centuries. In his work “De Architectura Libri Decem”, The Roman scholar Vitruvius described the use of natural oils to make mortar water repellent and therefore more weather resistant. Nowadays silanes and siloxanes or their combinations are mainly used as the best hydrophobic agents for modern building materials including reinforced concrete. The effectiveness and durability of a hydrophobic agent is basically determined by the depth of penetration and the active material content in the area of the substrate near the surface. Funcosil impregnations have a very high active agent content and are designed for high depths of penetration. Water repellence has therefore become a simple but technically high performance method of protecting both new and old concrete structures from corrosion damage.

Characteristics and advantages:

- A ‘cream’ system supplied ready to use
- Overhead application is no problem
- Outstanding depth of penetration due to extended contact time on the surface
- Active agent content of 80% by weight gives the maximum concentration near the surface of the concrete substrate
- Excellent water repelling properties
- Visible, homogeneous application allows quality controlled application
- Low material consumption and only one application
- Solvent free system



FOUNDATION AREAS – REMMERS SYSTEM SOLUTIONS

Splash zone protection

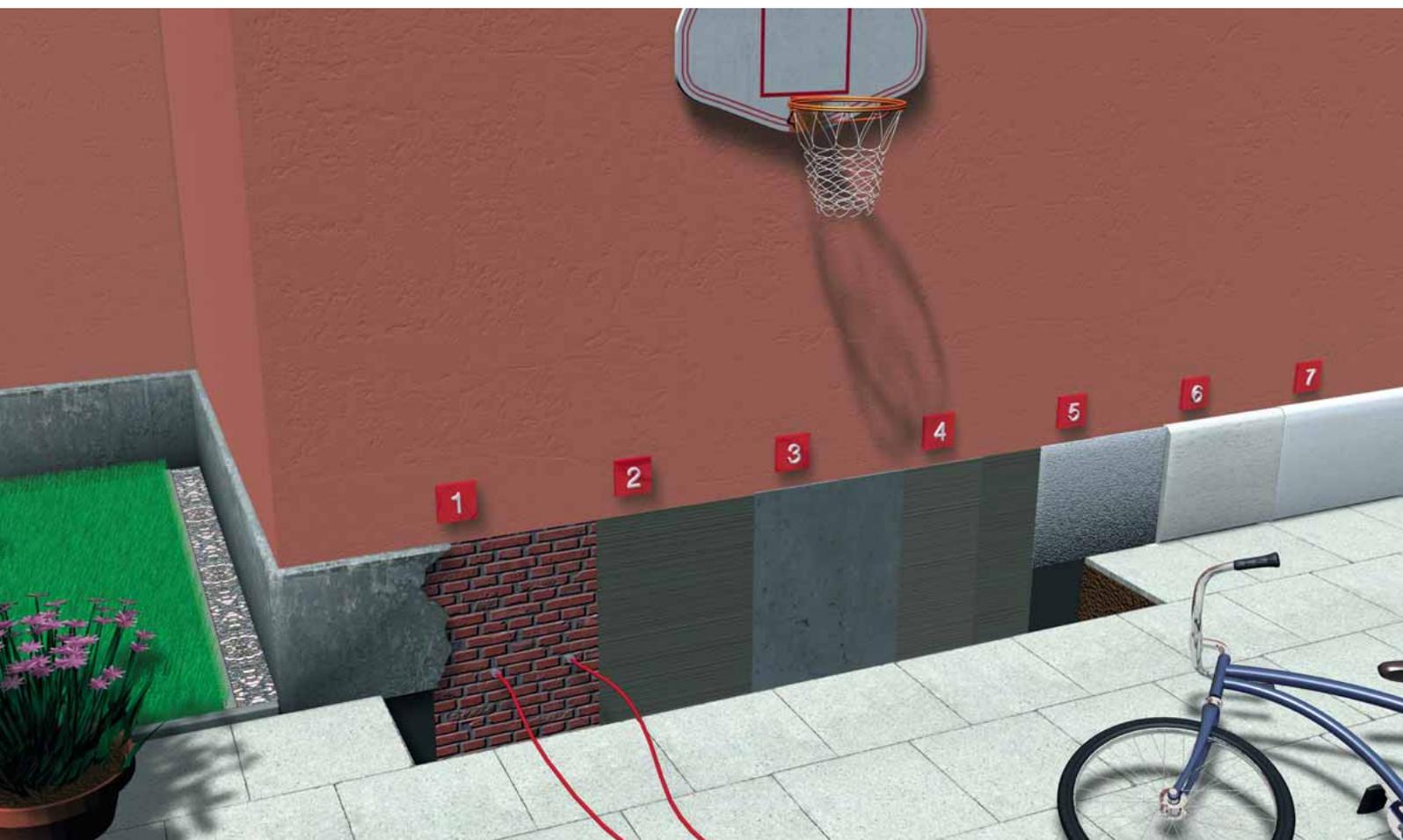
	Cleaning	<ul style="list-style-type: none"> Façade Cleaning Paste Microbiological Growth Remover Rotec® Whirljet equipment
Waterproofing	Priming	Kiesol
	Bond coat	Sulfatex Grout
	Render base levelling	Undercoat Render Waterproof Filler
	Splash zone waterproofing	Sulfatex Grout Sulfatex Grout - Rapid
Foundation rendering	Render bond coat	Special Splatterdash
	Base render	Refurbishment Render
	Finish render	Fine Render
	Priming	Primer SV Silicate Primer D
	Coating	Silicone Resin Filler Paint LA Silicone Resin Paint LA Silicate Paint D



Damp-proof courses (Horizontal barriers)

	Pre-drying	Aida Therm
	Void filling	Hole Suspension
	Injection	Kiesol Injection Cream
	Plugging	Waterproof Filler Sulfatex Gout Sulfatex Grout - Rapid





THE FOUNDATION SYSTEM

The ideal solutions to protect against moisture from below

Even in earlier times, a special 'plinth' was formed at the base of many buildings for protection against splashing water and / or rising damp from below. Materials absorbing as little water as possible were used. For example, timber framed buildings were often "raised" onto stone plinths and rendered facades were elevated on dense engineering brick piers.

The method most commonly in use on new buildings today consists of installing horizontal barrier layers in the form of bitumen sheets (DPC or DPM) into one or more brick, block or other substrates horizontal con-

struction joints. This only came into widespread use in the first half of the 20th century.

In addition to splash zone protection, remedial installation of a new horizontal barrier or dampproof course is the most important step towards maintaining an undamaged foundation interface area and therefore a completely undamaged façade.

Remmers has been a specialist in all types of façade and foundation waterproofing and protection for nearly 60 years. Numerous systems guaranteeing protection have been

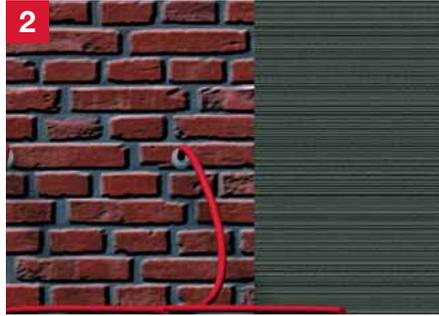


developed for all areas of the interface, the foundations and all types of below ground waterproofing works – including the refurbishment of deteriorated bituminous systems etc.



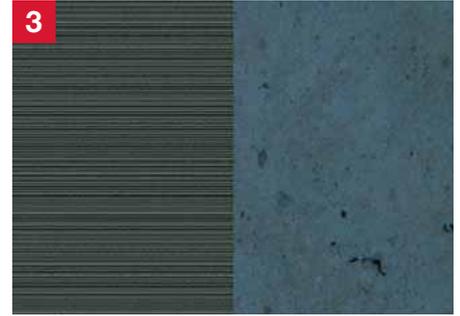
HORIZONTAL MOISTURE BARRIER (DPC)

To install a horizontal moisture barrier, holes are drilled every 100 to 120 mm into which Injection Cream is applied; alternatively injection points or 'packers' are inserted, through which Remmers Kiesol is then injected into the masonry. The existing deteriorated render is completely removed after installation of the horizontal moisture barrier (dpc).



PRIMING & BOND COAT

The prepared substrate is primed with Remmers Kiesol. During the Kiesol reaction time, a bond coat of Sulfatex Grout slurry is brush applied.



SUBSTRATE LEVELLING

For the render to cure without cracking, its thickness must be as uniform as possible. Uneven areas and cavities of up to 50 mm are levelled with Remmers Waterproofing filler directly onto the fresh bond coat in one operation.



WATERPROOFING

The foundation area is waterproofed with Sulfatex Grout slurry in at least two applications at intervals of about half an hour. This waterproofing slurry provides durable splash zone protection and prevents the façade render being leached.



SPLATTERDASH

Remmers Special Splatterdash can be applied 'wet on wet' onto the last slurry layer. Alternatively, Remmers Refurbishment Render WTA without splatterdash, can be applied onto the last slurry layer while it is still fresh.



REFURBISHMENT RENDER

If splatterdash has been used, the Remmers Refurbishment Render is applied on the hardened substrate after 24 to 48 hours curing.



FINE RENDER & PROTECTIVE COATING

The final finishing layer consists of Remmers Fine Render and the waterproof diffusible, highly hydrophobic Remmers Silicone Resin Paint LA.



MASONRY INJECTION WITH REMMERS INJECTION CREAM OR KIESOL

Façade protection from top to bottom

Remmers Injection Cream or Kiesol is applied directly into, or low pressure spray applied into the masonry, dependent on the moisture levels, through a series of holes. This injection material acts similarly to an impregnation, i.e. it soaks into the capillary system of the building material to form a continuously impregnated area in the wall cross-section. In this area the active ingredients are deposited in the capillary pores of the substrate and develop two active mechanisms. Firstly the pores are constricted and blocked to prevent moisture transport and secondly they are made water repellent, so that an unwettable layer with no capillary moisture transmission is formed.

Characteristics and advantages:

- Proven for over 35 years
- Capillary blocking
- Hydrophobic water repelling
- Usable for many different substrates
- Usable with different existing moisture levels
- Usable with irregular bedding joints
- Vibration-free application





SPLASH ZONE PROTECTION

On the foundations too – from wet to dry in 3 1/2 hours



The Remmers waterproofing system for the foundation area normally uses cementitious materials. In addition to the Remmers normal setting Sulfatex Grout slurry which has been used successfully for many years, the Sulfatex Grout Rapid slurry now offers a rapid, fully tested solution. This also has high sulphate resistance, but gives a significant time saving, particularly on smaller façade sections. This system is complete with Remmers Waterproofing Filler, which is used to level the substrate. A foundation wall can now be completely waterproofed in only 3 1/2 hours. Finally the foundations are given a water vapour diffusible, water repellent coating.

Characteristics and advantages:

- Innovative “Rapid” technology saves working time
- System solution with only a few products and optimum installation properties
- Levelling on rough substrates of up to 50 mm in one operation
- The grouting slurry acts as bond coat and waterproofing
- For small areas: use Sulfatex Gout - Rapid slurry, fast curing but with sufficient working time
- Efficient fast working – wet on wet
- Refurbishment render application without splatterdash bond coats



REMMERS PRODUCT OVERVIEW

Cleaning · Salt removal

Page 48

Stone restoration · Pointing Preventing organic growth · Water repellence

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Anti-Graffiti protection · Priming

Page 50

Coating · Scumbling

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Expansive swelling reduction · Strengthening Re-rendering & render repair

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Stucco refurbishment

Page 53

Consolidation & void grouting · Moulding and Re-profiling Timber infestation protection

Page 54

Timber preservation · Opaque priming Opaque timber coating · Transparent timber coating

Page 55

Spray infilling & half-timbering render · Infill coating Corrosion protection · Concrete replacement

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Splash zone protection

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Horizontal moisture barrier injection

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REMMERS PRODUCT OVERVIEW

Cleaning		
Rotec whirljet equipment	Characteristics Gentle cleaning and dirt removal of any kind. Precision jetting process. Whirljet system, no surface damage. Extremely controllable on difficult substrates or structures.	Coverage ca. 0,3-0,5 l/m ²

Graffiti Remover	Art. No.	Colour	Pack size	Characteristics	Coverage
AbPastebeizer	1368	-	5 l 25 l	Biodegradable, alkali-free, paste form, uniform application	ca. 0,3-0,5 l/m ²

Paint Stripper	Art. No.	Colour	Pack size	Characteristics	Coverage
	0801	-	5 l 25 l	Removes old oil paint, oil-based gloss paint and linseed/castor oil paint from timber and mineral substrates	ca. 0,3-0,5 l/m ²

Façade Cleaning Paste	Art. No.	Colour	Pack size	Characteristics	Coverage
	0666	Colourless	1 kg 5 kg 30 kg	For heavy soiling, paste form, uniform application, active agent ammonium bifluoride, pH value 5.5	mind. 0,1 kg/m ²

Microbiological Growth Remover	Art. No.	Colour	Pack size	Characteristics	Coverage
Ecological Algae Remover	0676	Colourless	1 l 2,5 l	Environmentally-friendly, no active chlorine, one spray is enough, no rinsing necessary; active agent: quaternary ammonium compounds	ca. 0,2 l/m ²

Combi WR	Art. No.	Colour	Pack size	Characteristics	Coverage
Weak Acidic Cleaner	0675	Greenish	1 kg 5 kg 30 kg	Ready to use, environmentally-friendly with citric acid, removes lime and mortar laitance; active agent: phosphoric acid	0,05-0,1 kg/m ²

Clinker Cleaner	Art. No.	Colour	Pack size	Characteristics	Coverage
Lime / Cement laitance Remover	0672	White	1 kg 5 kg 10 kg	Strong acidic cleaner, removes efflorescence, dissolves mortar residues, lime scale, high productivity due to powder concentrate	1 kg per 20 m ²

Accumulated Salt Removal					
Salt Removal Compress	Art. No.	Colour	Pack size	Characteristics	Coverage
	1070	Grey-beige	30 kg	Bentonite salt removal compress to German WTA Standard, high adsorbency, improved formulation with pumice granules	ca. 16 kg/m ² /cm

Brickwork	Rendered façades	Natural stone façades	Half-timbered façades	Concrete façades	Foundation areas
X	X	X	X	X	X
X	X	X	X	X	X
			X		
X		X	X	X	X
X	X	X		X	
X		X			X
X					
X		X			
X					
X		X			

Stone Restoration

Restoration Mortar SK	Art. No.	Colour	Pack size	Characteristics	Coverage
Mineral Stone Restoration Mortar	0594	White	30 kg	High-quality binder, low free alkali content very good adhesion, different strength levels, various layer thickness grades, colouring, feathering possible	1,3- 1,8 kg/l
	0596	Standard			

Brickwork	Rendered façades	Natural stone façades	Half-timbered façades	Concrete façades	Foundation areas
X		X	X		

Pointing

Historic Pointing Mortar	Art. No.	Colour	Pack size	Characteristics	Coverage
	0573	-	30 kg	Specific project formulation adapted to the original, compatible binder, compatible particle-size distribution curve	Project based

X		X			
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Pointing Mortar	Art. No.	Colour	Pack size	Characteristics	Coverage
	1029	Special colours	30 kg	High-quality binder, low alkali content, good adhesion, different strength grades, different layer thickness grades, colouring, ideal for initial pointing as well as refurbishment	Per joint width/ depth ca. 1.6 kg/l void
	1027	Old white			

X		X			
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Pointing mortar TK	Art. No.	Colour	Pack size	Characteristics	Coverage
Lime Based Pointing Mortar	1026	Trass grey	30 kg	Proven binder, high sulphate resistance, very good adhesion, different layer thickness grades, colouring	Per joint width/ depth ca. 1.6 kg/l void
	1025	Special colours			

X		X			
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Pointing Mortar ZF	Art. No.	Colour	Pack size	Characteristics	Coverage
Cement-free Pointing Mortar	1045	Special colours	30 kg	High quality cement free binder, low strength, mainly suitable for low-strength masonry, good deformation properties (low E-modulus), different layer thickness grades, colouring	Per joint width/ depth ca. 1.6 kg/l void

X		X	X		
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Pointing Mortar MG	Art. No.	Colour	Pack size	Characteristics	Coverage
Machine-applied Pointing Mortar	1047	Grey	30 kg	High-quality binder, low free alkali content, good adhesion, optimised for mechanical application, colouring, Ideal for initial machine pointing as well as refurbishment	Per joint width/ depth ca. 1.6 kg/l void
	1048	Special colours			

X		X			
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Pointing Slurry	Art. No.	Colour	Pack size	Characteristics	Coverage
	0435	Grey	25 kg	Slurry mortar for brick slurry pointing, improved mineral slurry, water-repellent and vapour diffusible	ca. 3 kg/m ²
	0437	Coloured			

X					
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Preventing Organic Growth

Impregnation BFA	Art. No.	Colour	Pack size	Characteristics	Coverage
BFA-active Primer	0673	Colourless Yellowish	1 l 5 l 30 l	Bactericide, fungicide and algicide, no hydrophobic effect, no tensides, free from heavy metals, preventive protection under coatings or hydrophobic impregnations with gel deposit formation	mind. 0,2 l/m ²

X	X	X			
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Water repelling

Funcosil SNL	Art. No.	Colour	Pack size	Characteristics	Coverage
Hydrophobic Impregnation	0602	Colourless	1 l 5 l 10 l 30 l	Most suitable for absorbent mineral substrates, deep penetration, energy saving by reducing thermal conductivity	0,3 l/m ² - 1,5 l/m ² per Untergrund

X		X			X
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Water repelling

Funcosil SN	Art. No.	Colour	Pack size	Characteristics	Coverage
Hydrophobic Impregnation	0604	Colourless	5 l 30 l	Very suitable for highly absorbent bricks, deep penetration, solvent is pure alcohol, energy saving due to dry façade	0,5 l/m ² - 1,0 l/m ² dep on substrate

Funcosil FC	Art. No.	Colour	Pack size	Characteristics	Coverage
Hydrophobic Impregnation	0711	White	0,75 l 5 l 18 l	Quick, easy and precise application, non-drip, roller, brush or airless spray applied, mainly for dense mineral substrates, long contact time, deep penetration, energy saving	Dep on porosity 0,15 l/m ² - 0,20 l/m ²

Funcosil BI	Art. No.	Colour	Pack size	Characteristics	Coverage
Hydrophobic Concrete Impregnation	0639	Colourless	5 l 30 l 200 l	Very suitable for absorbent concrete substrates, deep penetration, high active agent concentration	0,3 - 0,5 l/m ² 1,0 l/m ² 0,3 l/m ² dep on substrate

Funcosil IC Impregnation Cream	Art. No.	Colour	Pack size	Characteristics	Coverage
Hydrophobic Impregnation	0710	White	5 l 30 l	Quick, easy and precise application, non-drip, roller, brush or airless spray applied, long contact time, deep penetration, very high active agent concentration	ca. 0,2 - 0,4 l dep on substrate

Funcosil C 40 Impregnation Cream	Art. No.	Colour	Pack size	Characteristics	Coverage
Hydrophobic Impregnation	0704	White	5 l 18 l	Special impregnation for existing carbonated concrete, quick, easy and precise application, non-drip, roller, brush or airless spray applied, long contact time, deep penetration	ca. 0,2 l/m ²

Anti-Graffiti

Anti-Graffiti	Art. No.	Colour	Pack size	Characteristics	Coverage
Semi-permanent Graffiti Protection	0685	-	5 l 30 l	Water vapour diffusible, easy graffiti removal with hot water jet, silane/wax based, BAST listed by the German Anti-Graffiti Quality Association, semi-permanent	0,1 - 0,3 l/m ² 0,2 - 0,5 l/m ² 0,2 - 0,5 l/m ² 0,3 - 0,8 l/m ²

Priming

Impregnating Primer	Art. No.	Colour	Pack size	Characteristics	Coverage
Water Repellent Primer	0642	Colourless	5 l 30 l	Water-repellent, contains solvent, very good penetration, to balance absorbency	200 - 400 ml/m ²

Hydro Penetrating Primer	Art. No.	Colour	Pack size	Characteristics	Coverage
Strengthening, Water repellent, Aqueous Primer	0725	White	5 l 30 l	Strengthening, water repellent, aqueous, very good penetration, to strengthen and balance substrates	100 - 250 ml/m ² depending on substrate

Primer SV	Art. No.	Colour	Pack size	Characteristics	Coverage
	3438	Colourless	5 l 30 l	Strengthening, water repellent, containing solvent, very good penetration, to strengthen and balance substrates	ca. 0,2 l/m ²

Brickwork	Rendered façades	Natural stone façades	Half-timbered façades	Concrete façades	Foundation areas
X		X			X
X		X			X
				X	
				X	
X		X		X	X
X	X				
	X				
X	X				X

Priming

Penetrating Primer	Art. No.	Colour	Pack size	Characteristics	Coverage
Strengthening Primer	2909	-	5 l 30 l	Consolidating, containing solvent, very good penetration, to strengthen substrates	100-200 m/m ²

Silicate Strengthener	Art. No.	Colour	Pack size	Characteristics	Coverage
Strengthening Aqueous Primer	1072	-	30 kg	Strengthening	0,5 - 1,3 kg/m ² 30-50 kg/m ³

Silicate Primer D	Art. No.	Colour	Pack size	Characteristics	Coverage
Strengthening, Water Repellent, Aqueous Primer	0624	Colourless	5 l 30 l	Consolidating, water repellent, water glass based, very good penetration, to strengthen and balance substrates	100-200 ml/m ²

Protective Coating

Silicone Resin Filling Paint LA	Art. No.	Colour	Pack size	Characteristics	Coverage
"Genuine" Silicone Resin Paint	0560 0561	-	5 kg 20 kg	Very good water repellence, excellent water vapour permeability, for levelling up of different substrate profiles	Variable

Silicone Resin Paint LA	Art. No.	Colour	Pack size	Characteristics	Coverage
"Genuine" Silicone Resin Paint	6400 - 6430	White Colourless Special colours	5 l 15 l	Water-repellent, breathable, low dirt pick up, film protection for areas prone to fungi/algae, opaque & transparent paints, 'Gore-Text' effect as water repellent with good vapour diffusibility	ca. 0,2-0,4 l/m ²

Silicate Paint D	Art. No.	Colour	Pack size	Characteristics	Coverage
1-part Mineral Paint	0630 0632 0634	White levels 4,5, 6, colour collection	15 l	Very good water repellent, with excellent water vapour permeability, high coverage	ca. 0,2-0,3 l/m ²

Mineral Paint OH	Art. No.	Colour	Pack size	Characteristics	Coverage
Silicate Paint	0626 0627	White Special col. (light colours)	15 l	Extremely water vapour diffusible, capillary permeable, one-part, high weather resistance due to 'silicification' with the substrate	ca. 0,4 l/m ²

Concrete Acrylic	Art. No.	Colour	Pack size	Characteristics	Coverage
Pure Acrylate Façade Paint	6500 6521 6523 6529 6530	White Special cols from colour collection	5 l 15 l	Very good water repellence, high coverage, very good for concrete protection after refurbishment	ca. 0,15-0,2 l/m ²

Scumbling

Historic Slurry Scumble	Art. No.	Colour	Pack size	Characteristics	Coverage
"Genuine" Silicone Resin Slurry	6471	-	5 l 15l	Water-repellent, breathable, for surfaces with a lime washed look, suitable for natural stone, with film protection for areas prone to fungi/algae, 'Gore-Text' effect as water repellent with good vapour diffusibility	ca. 0,2-0,4 l/m ²

Brickwork	Rendered façades	Natural stone façades	Half-timbered façades	Concrete façades	Foundation areas
	X				
	X		X		
	X				X
X	X				X
X	X				X
	X				X
				X	
X	X	X		X	

Scumbling

Historic Scumble	Art. No.	Colour	Pack size	Characteristics	Coverage
"Genuine" Silicone Resin Paint	6476	-	5 l 15 l	Water-repellent, breathable, for surfaces with a lime washed look, suitable for natural stone, with film protection for areas prone to fungi/algae, "Gore-Tex" effect due to vapour diffusibility with water repellence	ca. 0,15 l/m ²

Expansive Swelling Reduction

Antihygro	Art. No.	Colour	Pack size	Characteristics	Coverage
Swelling Reducer	0616	-	5 l 30 l	Aqueous protective material for 'clayey' natural stone, non hydrophobic, no strength increase, reduction in degree and rate of hygric swelling	1,0 - 6,0 l/m ² dependent on substrate

Strengthening

KSE 100	Art. No.	Colour	Pack size	Characteristics	Coverage
Stone Strengtheners	0719	Clear, slightly yellowish	5 l 30 l	Low gel deposition (ca. 10%) to prevent over strengthening, suitable for stone with quite low absorbency, non hydrophobic, good, deep penetration	Determine requirement

KSE 300	Art. No.	Colour	Pack size	Characteristics	Coverage
Stone Strengtheners	0720	Clear, slightly yellowish	5 l 30 l 200 l	Solvent-free, gel deposition rate ca. 30%, increased salt resistance, higher flash point, non hydrophobic, good, deep penetration	Determine requirement

KSE 300 E	Art. No.	Colour	Pack size	Characteristics	Coverage
Stone Strengtheners	0714	Clear, slightly yellowish	5 l 30 l 200 l	Elasticized silica gel, gel deposition rate ca. 30%, for quite porous, soft substrates, non hydrophobic, good penetration	Determine requirement

KSE 300 HV	Art. No.	Colour	Pack size	Characteristics	Coverage
Stone Strengtheners	0654	Clear, yellowish, deep yellow	5 l 30 l	Special strengthener for limestone, gel deposition rate ca. 30%, non hydrophobic, good, deep penetration	Determine requirement

Re-rendering & Render Repair

Special Splatterdash WTA	Art. No.	Colour	Pack size	Characteristics	Coverage
	0400	-	30 kg	Hydraulic, sulphate resistant, good adhesion, easy to apply mechanically or manually	ca. 1,8 kg/m ² ca. 3 - 6 kg/m ²

Base Render WTA	Art. No.	Colour	Pack size	Characteristics	Coverage
	0401	-	20 kg	Water vapour permeable, water retardant, salt storing, sulphate resistant, easy to apply mechanically or manually	ca. 8,5 kg/m ² /cm layer thickness

Thermal Insulation Render	Art. No.	Colour	Pack size	Characteristics	Coverage
	0509	Light grey	75 l	Can be applied in layers of up to 50 mm, on all mineral wall materials and substrates, mineral binder, lightweight aggregates with porous structure, manually or mechanically applied	Dep on render thickness ca. 75l dry mortar per 1,4 m ² 11 l at 1 cm thickness per m ²

Brickwork	Rendered façades	Natural stone façades	Half-timbered façades	Concrete façades	Foundation areas
X	X	X			
		X			
		X			
	X	X			
		X			
					X
	X				
	X				

Re-rendering & Render Repair

Silicone Resin Filler	Art. No.	Colour	Pack size	Characteristics	Coverage
Crack Filler	0565	-	5 kg 10 kg	Water-repellent, breathable, pH neutral	ca. 1,2 kg/l

Bonding Mortar	Art. No.	Colour	Pack size	Characteristics	Coverage
Adhesive, Reinforcing, Filling Mortar	0517	Antique white	25 kg	Universal reinforcing and filling mortar, normal curing, mechanical application, very adhesive, water-repellent, tension balancing	ca. 1,2 kg/m ² - 8,0 kg/m ² per thickness & surface

Bonding Mortar S	Art. No.	Colour	Pack size	Characteristics	Coverage
Adhesive, Reinforcing, Filling Mortar	0519	Antique white	25 kg	Universal reinforcing and filling mortar, fast curing, mechanical application, very adhesive, water-repellent, tension balancing, easy finishing	ca. 1,2 kg/m ² - 8,0 kg/m ² per thickness & surface

Multi Filler	Art. No.	Colour	Pack size	Characteristics	Coverage
Patching/Surface Filler	2809 - 2808 - 2806 -	White Grey Special colour	5 kg 20 kg	Universal patching mortar for interior and exterior use, fast curing, can be wallpapered or painted over, cures without cracking in layers of up to 10 cm	ca. 1 kg/m ² per mm layer thickness

Fine Render	Art. No.	Colour	Pack size	Characteristics	Coverage
Mineral Décor Render	0408	Antique white	25 kg	Easy finishing, to produce fine, closed surfaces for over painting and wallpapering, high yield, water-repellent, high water vapour permeability	1 mm render thickness ca. 1,5 kg dry mortar, average up to 4 kg/m ²

Décor Render L	Art. No.	Colour	Pack size	Characteristics	Coverage
Re-profiling /Texturing Render	0502 0515	White	16 kg	Finish render for new build and refurbishment, for interior and exterior use, water repellent, water vapour permeable, also usable on low strength substrates	10 mm render 6 kg dry mortar per m ² , Décor ca. 2.5 kg dry mortar per m ²

Historic Finish Render	Art. No.	Colour	Pack size	Characteristics	Coverage
	0576	-	30 kg	Tailored formulation matched to the original, compatible binder, compatible particle-size distribution curve	Project specific

Stucco

Coarse Tensile Mortar	Art. No.	Colour	Pack size	Characteristics	Coverage
Stucco	0511	Light grey	25 kg	High-grade white binder, to form stucco cores, profiles and mouldings, water vapour permeable	ca. 1,1 kg/m ² /mm layer thickness

Fine Tensile Mortar	Art. No.	Colour	Pack size	Characteristics	Coverage
Stucco	0512	Antique white	25 kg	High-grade white binder, to finish stucco cores, profiles and mouldings, water repellent, water vapour permeable	ca. 1,3 kg/m ² /mm layer thickness

Brickwork	Rendered façades	Natural stone façades	Half-timbered façades	Concrete façades	Foundation areas
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Timber Infestation Protection

Adolit M Liquid	Art. No.	Colour	Pack size	Characteristics	Coverage
	2100	Colourless	5 kg 10 kg 30 kg	Very effective barrier against masonry rot and dry rot, high reliability with alkali rods, active agent combination usable by the foam process without additives	Min. 0.05 kg concentrate/m ²

Brickwork	Rendered façades	Natural stone façades	Half-timbered façades	Concrete façades	Foundation areas
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Timber Preservation

Impregnation GN	Art. No.	Colour	Pack size	Characteristics	Coverage
	2041	Colourless	5 l 10 l	Low-odour, solvent-based timber preservative to DIN 68800-3, Hazard class: 2,3; mainly used to protect statically loaded timbers, quick drying, preservative effect against rot, blue stain and insect infestation	ca. 150-200 ml/m ²
	2054	Light brown	30 l 210 l		
	2055	Dark brown	1000 l		

Brickwork	Rendered façades	Natural stone façades	Half-timbered façades	Concrete façades	Foundation areas
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Opaque Priming

Aidol Insulating Primer	Art. No.	Colour	Pack size	Characteristics	Coverage
	3440	White	0,75 l 2,5 l 5 l 10 l	Special water-based coating to protect against penetration of water-soluble wood constituents	2 x 70-80 ml/m ² as primer

Brickwork	Rendered façades	Natural stone façades	Half-timbered façades	Concrete façades	Foundation areas
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Universal Primer	Art. No.	Colour	Pack size	Characteristics	Coverage
	2309	White	2,5 l	White barrier primer containing solvent for problem woods. Titanium dioxide-rutile ensures good coverage and edge film build, excellent adhesion to the substrate and following coatings, with film preservative	80-100 ml/m ² per coat

Brickwork	Rendered façades	Natural stone façades	Half-timbered façades	Concrete façades	Foundation areas
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Opaque Timber Coating

Linseed Oil Paint HS	Art. No.	Colour	Pack size	Characteristics	Coverage
	2710	White	2,5 l	High-grade, semi-gloss, linseed oil based high solid finish paint, with solvent, non-aromatic, alkyd resin reinforced for long life, with high opacity and coverage, easy to use and long pot life	50-60 ml/m ² per operation
	2711	Half-timb colour collection (page 32)			

Brickwork	Rendered façades	Natural stone façades	Half-timbered façades	Concrete façades	Foundation areas
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Rofalin Acrylic	Art. No.	Colour	Pack size	Characteristics	Coverage
	2330	White	0,75 l 2,5 l	High-grade, matt, pure acrylic based protective paint, easy to use with long-term protection for many years, permanently elastic, rain, light & weather resistant, quick drying, low-odour, scour resistant to DIN 53778, tested to DIN EN 71-3	2 x 100 ml/m ² Pretreat with Aidol Insulating Primer (for light colours): 1 x 100 ml/m ²
	2343	Half-timb colour collection (page 32)	5 l 10 l 20 l		

Brickwork	Rendered façades	Natural stone façades	Half-timbered façades	Concrete façades	Foundation areas
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Rofalin Acrylic Plus	Art. No.	Colour	Pack size	Characteristics	Coverage
	2329	White	5 l 20 l	Basic characteristics as Rofalin Acrylic, plus preservative against microbial damage (algae, fungi etc.) in the paint film	2 x 100 ml/m ² Pretreat with Aidol Insulating Primer (for light colours): 1 x 100 ml/m ²
	2328	Half-timb colour collection (page 32)			

Brickwork	Rendered façades	Natural stone façades	Half-timbered façades	Concrete façades	Foundation areas
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Transparent Timber Coating

Aidol HK Scumble	Art. No.	Colour	Pack size	Characteristics	Coverage
	2250 2292	17 colours	0,75 l 2,5 l 5 l 30 l	Decorative exterior wood protection scumble containing solvent, with advanced active agent combination, prevention of blue stain, rot, insects, algae & fungi	Total 0.2-0.25 l/m ² in 2-3 coats

Brickwork	Rendered façades	Natural stone façades	Half-timbered façades	Concrete façades	Foundation areas
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Aidol Long-term Scumble	Art. No.	Colour	Pack size	Characteristics	Coverage
	2234 2248	13 colours	0,75 l 2,5 l 5 l 30 l	Decorative, medium-solid, solvent-based scumble, fills the gap between thin impregnations and high-build scumbles	60-100 ml/m ² per coat

Brickwork	Rendered façades	Natural stone façades	Half-timbered façades	Concrete façades	Foundation areas
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Splash Zone Protection

Waterproofing Filler	Art. No.	Colour	Pack size	Characteristics	Coverage
	0426	-	25 kg	Sealing joints, holes, spalling, fast crack-free curing, high substrate and composite adhesion, water, frost and sulphate resistant, vapour permeable	1,7 kg powder per litre of void or per mm layer thickness per m ²

Sulfatex Grout Mineral Sealant Slurry	Art. No.	Colour	Pack size	Characteristics	Coverage
	0430	-	25 kg	Vapour permeable, extremely water proof surface sealant, fast curing, high strength	3,2 kg/m ²

Sulfatex Grout -Rapid- Mineral Sealant Slurry	Art. No.	Colour	Pack size	Characteristics	Coverage
	0425	-	25 kg	Fast curing, high strength	3,2 kg/m ² 5 kg

Base Render	Art. No.	Colour	Pack size	Characteristics	Coverage
	0401	-	20 kg	Water vapour permeable, water repellent, salt storing, sulphate resistant, easy to apply mechanically or manually	ca. 9,5 kg/m ²

Waterproofing Filler Sealing and Filling Mortar	Art. No.	Colour	Pack size	Characteristics	Coverage
	0426	-	25 kg	Rapid sealing, cementitious waterproofing for interior and exterior use	ca. 1,7 kg/m ²

Horizontal Barrier Injection

Kiesol Liquid Silicification Concentrate	Art. No.	Colour	Pack size	Characteristics	Coverage
	1810	-	6 x 1 kg 5 kg 10 kg 30 kg	Against capillary rising moisture, against rising moisture, by low pressure and injection	New build 0,1 - 0,3 kg/m ² Special 0,3 - 0,6 kg/m ²

Wall Injection	Art. No.	Colour	Pack size	Characteristics	Coverage
	0313	Yellowish red brown	10 kg 30 kg	Hydrophobic against rising capillary moisture (rising damp)	0,15 - 0,20 kg per 100 mm wall thickness per m

Injection Cream Dam-proofing injection cream	Art. No.	Colour	Pack size	Characteristics	Coverage
	0709	White	310 ml and 1 litre cartridges, 5 litre tubs	One component water based cream on a silane/siloxane base. Suitable for treatment of rising damp in masonry (BBA Certificate 05/4202)	Apply 0,9 litres per lin metre / per 100 mm wall thickness

Brickwork	Rendered façades	Natural stone façades	Half-timbered façades	Concrete façades	Foundation areas
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REMMERS SYSTEM GUARANTEE

10-year permanent protection signed and sealed



Because we are so confident we pass this security on to our customers: With the Remmers System Guarantee (RSG) for up to 10 years. It gives contractors real competitive advantage and gives specifiers the security of knowing exactly what they will get. Numerous test certificates and reports under ISO, EN, DIN, BS, WTA, BBA, BRE and many other authorities and standards verify the performance and long term effectiveness of all of the different system components and their reliable interaction.

The RSG says that Remmers is liable for any product defect during the 10 year warranty period. No greater security is available for the client or our contracting customers. Of course the RSG contractors and specifiers also benefit from the guaranteed long term security of the complete Remmers façade system: They gain a clear competitive advantage with many satisfied customers happy to pass on a recommendation.



Your RSG benefits:

- Waterproof façade
- Saving on heating costs
- Improved appearance
- Maintenance of your investment in the façade's value
- The façade is not vapour tight and remains breathable
- Detailed material proposals and application by Remmers recommended specialist contractors
- The most environmentally friendly products

