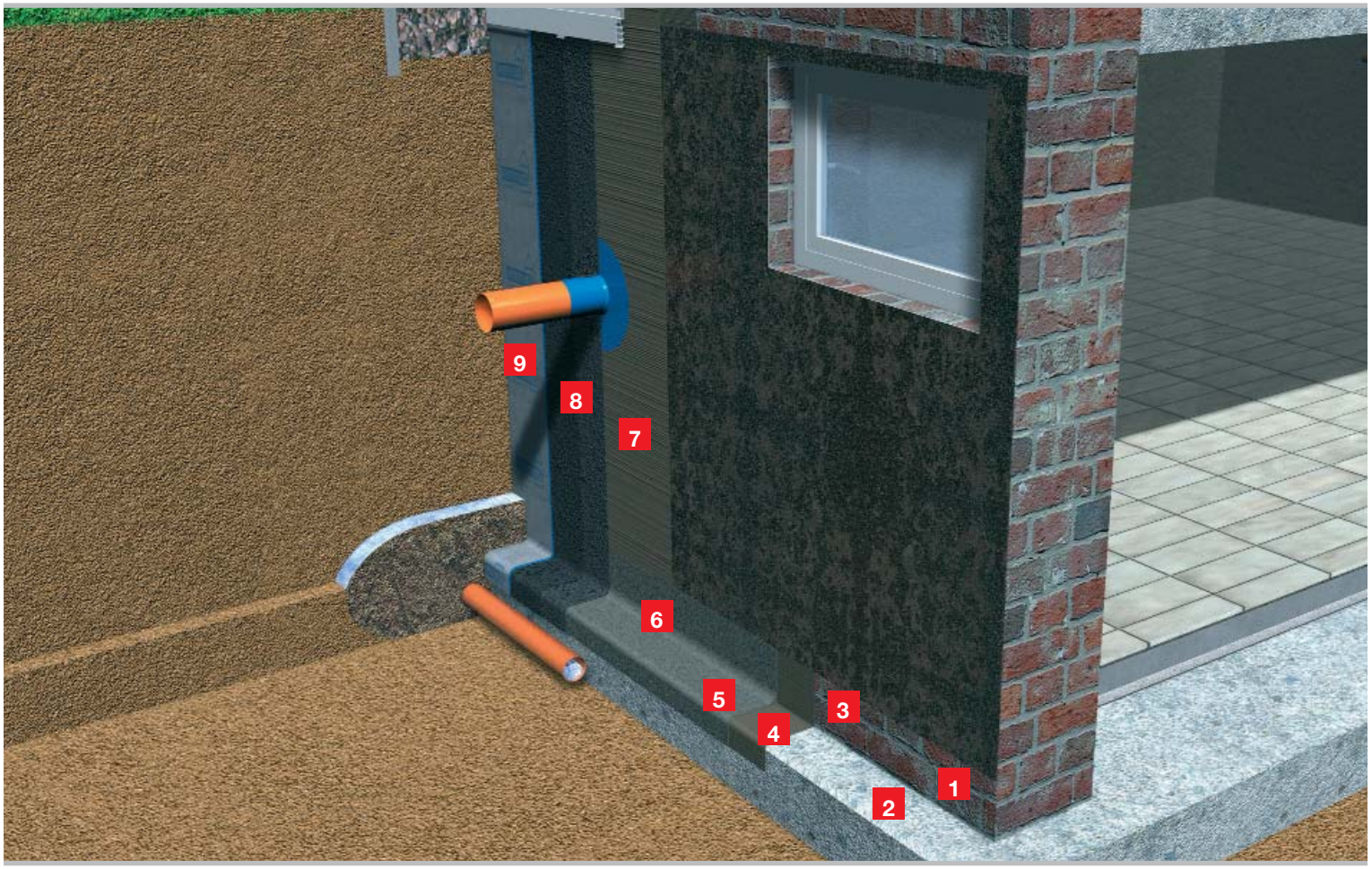
THE REFURBISHMENT OF EXTERNAL BITUMINOUS WATERPROOFING SYSTEMS

Durable Protection



FROM OLD TO NEW

The Refurbishment of External Bituminous Waterproofing

It is always essential to check whether existing bituminous coatings are sound and have a good bond to the substrate, before commencing the waterproofing works. Any loose or friable particles, flaking areas or other contaminants must be removed.

If in doubt as to the existing materials condition, always decide on its removal.
Sound bitumen waterproofing materials are prepared for refurbishment with a new coating, by cleaning with high pressure water jetting. The highest exposure stresses will always occur at the bottom, so the old waterproofing should always be completely removed here in every case, back to the sound masonry substrate.

A quick 'on the spot' test:

It is easy to establish whether a material contains tar or bitumen with a small amount of petroleum spirit:

- If the material easily dissolves, it is bitumen.
- If the material is resistant or only slightly dissolves, then it is tar.

For your additional security:
You can send a sample to our laboratories for confirmation testing.

HOW THIS TYPE OF WATERPROOFING IS ACHIEVED

The sequence of operations

PREPARATION: REMOVING THE OLD COATING

In the highly stressed area at the bottom, the old waterproofing is completely removed back to the sound masonry substrate.

CLEANING THE FOUNDATIONS

Any edges or corners of the foundations are chamfered so that there are no sharp arrises. Any loose or friable particles or other contaminants are removed ie by high pressure water jetting.

PRIMING WITH KIESOL

The Kiesol primer is applied uniformly by spray. Highly absorbent substrates are pre-dampened to reduce suction.

BOND COAT OF SULFATEX GROUT

Within the Kiesol open time, the Sulfatex Grout bond coat is applied by brush.

LEVELLING WITH WATERPROOFING FILLER

All spalling and surface defects up to 50 mm deep are filled and levelled with Waterproofing Filler.

FORMING A SEALING COVE WITH THE WATERPROOFING FILLER

A corner sealing cove is also formed with Waterproofing Filler by trowel ‘wet on wet’, using a special coving trowel.

APPLYING THE ELASTOGROUT

The elastic Elastogrout 1K is applied in a thin layer uniformly over the whole surface by trowel.

APPLYING THE BITUMEN WATERPROOF COATING WITH PROFI TIGHT

After the bond coat has set, the Polymer Modified waterproof coating is applied in two coats.

PROTECTING THE CURED WATERPROOFING SYSTEM

When the waterproofing system has completely dried (confirmed by the control samples), it must be protected with Remmers Protective Sheeting System prior to back filling.

TIME PROVEN TO BE WATERPROOF FOR MANY YEARS

External waterproofing for ground water contact

Kiesol waterproofing systems have become synonymous with durable waterproofing.

They have proved themselves over many years for all load and exposure conditions and all types of structures. The Remmers systems provide a reliable solution for every substrate.

The mortar levelling systems and slurry coats for masonry substrates are highly sulphate resistant. Additionally the bitumen based bond coats and high polymer content slurry systems, have proved highly effective for many years in refurbishing and re-waterproofing old bituminous substrates.

All Remmers slurry, levelling and high-build coating systems use 'state of the art' material technology. They are extremely easy to apply, manually or by machine. They are reliable and very economic in use.

Many impressive references and numerous test certificates and waterproofing system inspection reports confirm the strengths of the Remmers system solutions:

- Usable on damp substrates
- Extremely high pressure resistance of the polymer modified bitumens
- Reinforcing is not necessary for any exposure condition
- Rapid drying and curing
- Economic with high solids contents (ca. 90%)
- Ecological: solvent free and environmentally safe
- Resistant to corrosive substances (conforms to DIN 4030)
- Maximum security due to excellent substrate and intercoat adhesion

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