Technical Data Sheet

CEMPROTEC EF PRIMER

Stabilises and Seals Cementitious & Asphalt Substrates

USES

To stabilise and seal cementitious and asphalt floors prior to the application of the **CEMPROTEC** range of cementitious coatings and mortars. It can overcome some inadequacies in surface preparation and helps minimise the risk of out-gassing from the substrate.

ADVANTAGES

- Material is ready to use and can be brush or roller applied in one coat.
- Further increases the adhesion of **CEMPROTEC CEMENTITIOUS COATINGS** and mortars.
- Economic surface impregnant.

PRODUCT DESCRIPTION

CEMPROTEC EF PRIMER is a modified, styrene acrylic co-polymer impregnant with high penetration, which stabilises and seals cementitious and asphalt substrates. Further increases the adhesion of **CEMPROTEC** cementitious coatings and mortars and prevents rapid drying and out-gassing at the concrete interface on porous and inadequately saturated backgrounds.

APPLICATION DATA

Application Guide available on request.

PREPARATION

CONCRETE:

New surfaces generally only require a minimum of 1 day cure prior to treatment. Surface laitance and curing membrane must be removed by blast cleaning techniques or acid etching. Flexcrete repair materials and polymer modified toppings may also be overcoated after 1 day.

Existing surfaces should be inspected thoroughly. The areas to be treated must be free from all unsound material, i.e. surface laitance, dust, oil, grease, organic growth or previous surface treatments, and smooth surfaces should be roughened. This can be achieved by using portable shot-blasting equipment (e.g. Blastrac) or other approved blasting or scarifying techniques.

Areas that are to receive a topping should be prepared using a scabbling or planing machine to give sufficient surface texture. Any remaining oil and grease contamination must be removed with a proprietary degreasant. In some instances of heavy contamination, it may be necessary to use hot compressed air equipment, flame spalling or steam cleaning techniques.

All previous repair materials, patches, etc, which are unsound should be removed and major cracks, voids, defects, etc, should be cleaned out prior to making good using an appropriate Flexcrete Repair Mortar. Final high pressure water jetting is recommended to remove any remaining debris to leave a thoroughly clean, dust free open textured surface.

The prepared substrate should be thoroughly soaked with clean water until uniformly saturated without any standing water. Concrete should have a minimum characteristics strength of 20 MPa.

TECHNICAL DATA

Basis:	Modified styrene acrylic copolymer dispersion	
Colour:	Pale blue liquid	
Specific Gravity:	1.02 at 20ºC	
Application & Substrate Temperature:		
	Minimum	5º
	Maximum	35ºC
Overcoat Time:	Minimum	30 minutes
	Maximum	7 days
	Typical	2 hours

COVERAGE RATES

Concrete	
Porous	3 m²/litre
Normal quality (20-30N/mm²)	5 m²/litre
Dense/power-floated	7 m²/litre
CEMPROTEC LEVELLING COAT	10 m²/litre
Asphalt	7 m²/litre

PREPARATION

ASPHALT

Assuming that there are no defects, new asphalt may be treated after 72 hours, although ideally it should be left longer to allow any shrinkage to occur. Surfaces should be wiped with a proprietary solvent to remove any surface contamination and allowed to dry prior to treatment.

Existing asphalt must be inspected for defects. Any areas which have lost adhesion or blistered must be re-adhered or replaced. Any areas exhibiting sagging or slumping should be ironed out or replaced. Large cracks must be cleaned out and filled using a compatible material or heated and re-sealed. DO NOT OVERHEAT. If necessary, patch repairs should be carried out and allowed to cure prior to subsequent coating.

The surface should be prepared with a totally enclosed shot blasting technique or a surface planer/scaler to provide a good texture and to ensure that all surface contaminants are removed. Oil and grease contamination should be removed using powerful detergents in combination with high pressure water jetting. Areas of severe contamination should be cut out and filled with a Flexcrete Repair Mortar.

Clean down all surfaces using high pressure water (minimum 2000 psi) to provide a clean, contamination free surface for treatment. Allow surfaces to dry before continuing.

PLACING

CEMPROTEC EF PRIMER should be poured onto the prepared surface and spread to the desired coverage rate, given in the table overleaf, using a brush or roller. Allow the material to become a transparent blue colour before continuing, typically 30-90minutes. If the **CEMPROTEC EF PRIMER** is not overcoated within 7 days it must be mechanically removed by blast cleaning or hand held power tools before re-application as above.

DO NOT ADD WATER OR OTHER MATERIALS TO THIS PRODUCT.

CLEANING

All tools should be cleaned with water immediately after use.

SHELF LIFE

Shelf life is 12 months for unopened containers stored in dry, frost free conditions at moderate temperatures not greater than 25ºC .

PACKAGING AND COVERAGE

Pack Size:	5 and 25 litres
Coverage:	25m² per 5 litre pack on normal concrete surfaces
	125m² per 25 litre pack on normal concrete surfaces

SAFETY DATA

Safety Data Sheet available on request.

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