

Cemprotec EF Primer

Stabilises and Seals Cementitious & Asphalt Substrates

Product Overview

Water-based, modified styrene acrylic copolymer liquid impregnant with high penetration.

Uses

To stabilise and seal cementitious and asphalt floors prior to the application of the **CEMPROTEC** range of cementitious coatings and mortars. Helps to minimise the risk of outgassing from the substrate.

Advantages

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

Description

CEMPROTEC EF PRIMER is a single component modified, styrene acrylic copolymer impregnant with high penetration which stabilises and seals cementitious and asphalt substrates. It increases the adhesion of **CEMPROTEC** cementitious coatings and mortars and prevents rapid drying and out-gassing at the concrete interface on porous substrates.

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 characteristic strength of 20MPa.

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.



Technical Data

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

Placing

CEMPROTEC EF PRIMER should be poured onto the prepared surface and spread to the desired coverage rate (as detailed below) using a brush or roller. Allow the material to become a transparent blue colour before continuing, typically 30-90 minutes. 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. If subject to ponded water during the 7 day overcoat window, inspect for softening and degradation, mechanically remove any affected primer using blast cleaning or hand held power tools and reapply.

DO NOT ADD WATER OR OTHER MATERIALS TO THIS PRODUCT.

Coverage

Concrete:	
Porous:	3 m ² /litre
Normal quality (20-30N/mm ²):	5 m ² /litre
Dense/power-floated:	7 m ² /litre
Cemprotec Levelling Coat:	10 m ² /litre
Asphalt:	7 m ² /litre

Cleaning and Storage

All tools should be cleaned with water immediately after use.

CEMPROTEC EF PRIMER can be stored for 12 months in dry, frost free conditions with unopened bags 20°C.

Packaging

CEMPROTEC EF PRIMER is supplied in 5 litre and 25 litre units.

Health and Safety

Safety Data Sheets are available on request.

Application Top Tips

1. Rough, porous or irregular substrates will reduce coverage.
2. For roller application use short pile rollers or equivalent.
3. Low temperatures and high humidity extend drying times.
4. Clean brushes and rollers occasionally during use.
5. Cold Weather Working (See separate Guide)
 - Do not apply below 5°C.
 - Do not use any product which has been frozen.
6. Protect from prolonged storage at high temperatures (≥40°C).

The information herein is correct to the best of our knowledge, but it does not necessarily refer to the particular requirements of the customer. If the customer has any particular requirements it should make them known in writing to Flexcrete Technologies Limited, and obtain further advice accordingly.



FM 41091	Quality
EMS 597350	Environmental
OHS 597351	Health & Safety