

Concrete Primer

FORMERLY FLEXCRETE BOND-PRIME S

PRODUCT DESCRIPTION

A single component, water-based (VOC free), rapid curing, acrylic copolymer modified with a unique water-emulsified epoxy cross-linking agent and siloxane emulsion. Intercrete 4816 is inherently hydrophobic and alkali resistant, making it ideal for application to a wide range of new and aged mineral substrates. It is non-hazardous, and application is by brush, roller or airless spray to prime and stabilise surfaces prior to the application of Intercrete specialist membranes. Intercrete 4816 cures to form a clear film with an identifying green tint, both on and within the substrate, to provide an ideal surface for subsequent treatment.

INTENDED USES

Designed to be used to treat a range of substrates, including: concrete mortars and renders, masonry, polyurethane foam, phenolic board, existing paints, plaster and Intercrete Repair Mortars. Intercrete 4816 enhances bond by combining penetration into the pore structure with a surface film-forming effect to produce a stabilised, sound surface ideal for treatment.

Reacts with subsequently applied coatings to provide a chemical bond giving excellent adhesion and dries quickly without the release of hazardous solvents and can be overcoated after just 1 hour.

PRACTICAL INFORMATION FOR INTERCRETE 4816

Volume Solids	25%			
Density	1.05kg/l (8.74lb/gal)			
Typical Thickness	25 microns (1 mils) dry equivalent to 100 microns (4 mils) wet			
Practical Coverage	5m ² per litre on absorbent surfaces 10m ² per litre (maximum) on non-absorbent surfaces.			
	5 litres will cover approximately 25-50m ² dependent on substrate. Practical coverage will depend upon the porosity of the area being treated and appropriate losses must be taken into consideration.			
Method of Application	Brush, Roller, Spray			
Shelf Life	12 months at 20°C (68°F).			
Pack Size	5 litre and 25 litre units			
Drying Time	Overcoating interval with self			
Temperature	Touch Dry	Hard Dry	<i>Minimum</i>	<i>Maximum</i>
20°C (68°F)	¹	6 hours	6 hours	24 hours
30°C (86°F)	¹	60 minutes	60 minutes	24 hours

¹ Not applicable

COMPLIANCE AND CERTIFICATION

When used as part of an approved scheme, this material has the following certification:



Protective Coatings

Concrete Primer

SURFACE PREPARATION

Concrete

All surfaces should be clean and free from laitance, curing compounds, release agents, efflorescence, grease, oil, dirt, old coatings and loose or disintegrating concrete. The preferred methods of surface preparation are wet grit or water blasting techniques. Ensure any existing paints are fully adhered before priming. Surfaces subjected to mould, bacterial or algal growth should be first treated with a suitable proprietary biocidal wash, rinsing down as necessary. Ensure the moisture content of the surface is less than 20% wood moisture equivalent as measured by a Protimeter, which equates to a relative humidity of 84% in the substrate.

APPLICATION

Mixing

Intercrete 4816 is a one component product and should always be mixed thoroughly prior to use.

Airless Spray

Recommended

Tip Range 0.28-0.48 mm (11-19 thou)

Total output fluid pressure at spray tip not less than 176 kg/cm² (2500 p.s.i.)

Brush

Recommended

For brush application, use wide, soft nylon or bristle brushes.

Roller

Recommended

Medium pile sheepskin, sponge or short pile mohair roller or equivalent

Work Stoppages / Clean Up

Clean all equipment immediately after use with clean water. It is good working practice to periodically flush out spray equipment during the course of the working day. Frequency of cleaning will depend upon amount sprayed, temperature and elapsed time, including any delays.

All surplus materials and empty containers should be disposed of in accordance with appropriate regional regulations/legislation.

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PRODUCT CHARACTERISTICS **Concrete**

Do not apply when the temperature is below 5°C (41°F) or when raining.

Application and Curing

Apply one coat by brush, roller or airless spray at a maximum coverage rate of up to 5m²/litre on cured concrete or 10m²/litre on other non-absorbent substrates. On green, uncured, damp cementitious substrates, two coats may be required. Salt laden substrates will require two coats. Absorbent substrates will reduce coverage.

Intercrete Repair Mortars should be cured overnight and, when dry, one coat of primer should be applied at 5m²/litre as above

Allow primer to dry prior to overcoating with the chosen membrane as detailed on the individual Product Data Sheet, ideally within 24 hours. Application may take place within 7 days but, if the primer is left any longer, a further coat of Intercrete 4816 should be applied.

Note: Permissible Substrate Moisture:

Intercrete 4816 has excellent tolerance to substrate dampness, but upper limits relate to the subsequent coating application for which the maximum permitted moisture content is 20% wood moisture equivalent (wme) as measured by a Protimeter.

APPLICATION TIPS

- Rough, porous or irregular substrates will reduce coverage.
- Clean brushes and rollers occasionally during use.
- Clean spray nozzles regularly to avoid blockages.
- Cold Weather Working (See separate Guide): minimum application temperature 5°C (41°F). Do not use any product which has been frozen.
- Protect from prolonged storage at temperature higher than 40°C (104°F).

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SAFETY PRECAUTIONS

This product is intended for use only by professional applicators in industrial situations in accordance with the advice given on this sheet, the Safety Data Sheet and the container(s), and should not be used without reference to the Safety Data Sheet (SDS).

All work involving the application and use of this product should be performed in compliance with all relevant national, Health, Safety & Environmental standards and regulations.

If in doubt regarding the suitability of use of this product, consult International Protective Coatings for further advice.

Important Note

The information in this data sheet is not intended to be exhaustive; any person using the product for any purpose other than that specifically recommended in this data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at their own risk. All advice given or statements made about the product (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability at all for the performance of the product or for (subject to the maximum extent permitted by law) any loss or damage arising out of the use of the product. We hereby disclaim any warranties or representations, express or implied, by operation of law or otherwise, including, without limitation, any implied warranty of merchantability or fitness for a particular purpose. All products supplied and technical advice given are subject to our Conditions of Sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is liable to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to check with their local representative that this data sheet is current prior to using the product.

This Technical Data Sheet is available on our website at www.international-marine.com or www.international-pc.com, and should be the same as this document. Should there be any discrepancies between this document and the version of the Technical Data Sheet that appears on the website, then the version on the website will take precedence.

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