

Polymer Modified Cementitious Coating

PRODUCT DESCRIPTION A two component, thixotropic, polymer modified cementitious coating for the protection of concrete substrates.

INTENDED USES

Specifically designed for the structural waterproofing and protection of concrete substrates where improved chemical and abrasion resistance is required. Intercrete 4841 can be reinforced with Intercrete 4872 tape to accommodate movement of cracks and joints.

Intercrete 4841 offers low permeability to water at 10bar positive and negative pressure along with excellent resistance to carbon dioxide gas and chloride ion diffusion.

Intercrete 4841 is the ideal choice for increasing cover over steel reinforcement.

Listed under DWI Regulation 31 for drinking water applications.

PRACTICAL INFORMATION FOR INTERCRETE 4841

Colour	Grey			
Gloss Level	Matt			
Volume Solids	100% (based on wet film thickness applied being equal to dry film thickness)			
Theoretical Coverage	Typically 8.3m ² at 2000 microns (80 mils) dry film thickness per 30kg composite pack			
Practical Coverage	Allow appropriate loss factors			
Density	1800 kg/m ³ (112.369 lb/ft ³)			
Method of Application	Airless Spray, Brush, Trowel, Skid Leveller			
Drying Time	Overcoating interval with self			
Temperature	Touch Dry	Hard Dry	<i>Minimum</i>	<i>Maximum</i>
20°C (68°F)	5 hours	18 hours ¹	45 minutes	7 days ²

¹ Applied at 2000µm (80 mils); may depend on weather conditions
² If the maximum overcoating interval is exceeded the surface must be thoroughly cleaned and saturated prior to overcoating.

REGULATORY DATA

Flash Point (Typical)	Part A 101°C (214°F); Mixed 101°C (214°F)		
VOC	0 g/lit	Calculated	

See Product Characteristics section for further details

Polymer Modified Cementitious Coating

SURFACE PREPARATION

Concrete Substrates

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.

Any defects such as blow holes, small and large voids etc. revealed by the surface preparation process must be treated using the appropriate Intercrete products. Consult the Intercrete 4841 Application Guidelines for further information.

Thoroughly soak the substrate with clean water until fully saturated. Remove excess water prior to application of Intercrete 4841. All concrete floors, decks and highly porous substrates should be appropriately sealed using Intercrete 4850.

APPLICATION

Mixing

Intercrete 4841 is supplied in two parts; a liquid binder component (Part A) and a powder component (Part B). **MIX FULL UNITS ONLY.** Shake Part A thoroughly and pour into a suitable mixing container, then slowly add Part B whilst stirring with a mechanical agitator. Mix for 5 minutes with regular scraping of the container sides to prevent lumps from forming. For spray application, material should be filtered through a 4mm sieve. Once the unit has been mixed it should be used within the working pot life specified.

Working Pot Life

20°C (68°F)
30 minutes

Airless Spray

Recommended

Tip Size 1.40 mm (55 thou)
Total output fluid pressure at spray tip not less than 189 kg/cm² (2688 p.s.i.)

Brush

Recommended - Small areas only

Thinner

DO NOT THIN

Cleaner

Clean Water

Work Stoppages

Do not allow material to remain in hoses, guns or spray equipment. Thoroughly flush all equipment with clean water.

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.

Polymer Modified Cementitious Coating

PRODUCT CHARACTERISTICS

Always consult the Intercrete 4841 Application Guidelines prior to use.

This datasheet provides general guidance on the use of Intercrete 4841. Specific project requirements will be dependent upon the substrate type, substrate condition, service end use and environmental conditions. Always consult International Protective Coatings to confirm that Intercrete 4841 is suitable for the intended end use.

The detailed project specification provided by International Protective Coatings must be followed at all times.

Intercrete 4841 must be protected from freezing at all times during storage and transport. The recommended storage temperature is between 4°C (39°F) and 25°C (77°F).

This product will not cure adequately below 5°C (41°F). For maximum performance, curing temperatures should be between 10°C (50°F) and 35°C (95°F).

Intercrete 4841 is typically applied in two coats at 1000 microns (40 mils) per coat. When applying to floors, decks and areas with tidal movement it is recommended that Intercrete 4841 be applied in a single coat at 2000 microns (80 mils).

Intercrete 4841 is not designed to provide a decorative finish and may dry with a patchy appearance until uniformly weathered.

In cold, humid conditions, condensation may form on the surface of Intercrete 4841 resulting in a darker finish and an increase in cure time.

To aid curing, Intercrete 4870 curing membrane should be applied directly over Intercrete 4841.

Mechanical Characteristics (typical values)

Compressive Strength (BS4551 @ 20°C (68°F))

1 day 10.5MPa

7 days 30.5MPa

28 days 40.0MPa

Water permeability: 2mm = 6000mm of typical concrete (2mm = equivalent air thickness value R = 5200 metres).

Note: VOC values are typical and are provided for guidance purpose only. These may be subject to variation depending on factors such as differences in colour and normal manufacturing tolerances.

SYSTEMS COMPATIBILITY

Concrete Substrates

Depending upon the condition of the substrate and any exposed steel reinforcement, additional surface preparation products from the Intercrete range may be required prior to the application of Intercrete 4841. Consult International Protective Coatings for further details.

All concrete floors, decks and highly porous substrates should be appropriately sealed using Intercrete 4850.

Polymer Modified Cementitious Coating

ADDITIONAL INFORMATION

Further information regarding industry standards, terms and abbreviations used in this data sheet can be found in the following documents available at www.international-pc.com:

- Definitions & Abbreviations
- Surface Preparation
- Intercrete 4841 Application Guidelines

Individual copies of these information sections are available upon request.

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 Material Safety Data Sheet and the container(s), and should not be used without reference to the Material Safety Data Sheet (MSDS) which International Protective Coatings has provided to its customers.

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.

In the event welding or flame cutting is performed on metal coated with this product, dust and fumes will be emitted which will require the use of appropriate personal protective equipment and adequate local exhaust ventilation.

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

PACK SIZE

30kg composite packs

For availability of other pack sizes, contact International Protective Coatings.

SHIPPING WEIGHT (TYPICAL)

STORAGE

Shelf Life

12 months minimum at 25°C (77°F). Subject to re-inspection thereafter. Store in dry, shaded conditions away from sources of heat and ignition.

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.

Copyright © AkzoNobel, 05/02/2015.

All trademarks mentioned in this publication are owned by, or licensed to, the AkzoNobel group of companies.

www.international-pc.com