

Steel Reinforcement Protection

PRODUCT DESCRIPTION A two component, water based, polymer modified cementitious anti-corrosive coating.

INTENDED USES Specifically designed to rapidly reinstate the passivating layer around steel reinforcement to give long term corrosion protection as part of an Intercrete concrete repair system.

Typically brush applied in two coats at 1mm per coat with fast overcoating.

PRACTICAL INFORMATION FOR INTERCRETE 4871

Colour	Grey			
Gloss Level	Matt			
Volume Solids	100% (based on wet film thickness applied being equal to dry film thickness)			
Typical Thickness	Applied as a two coat system at 1000 microns (40 mils) per coat			
Theoretical Coverage	Typically 45 linear metres of 10mm steel bar per 5kg composite pack			
Practical Coverage	Allow appropriate loss factors			
Density	1800 kg/m ³ (112.369 lb/ft ³)			
Method of Application	Brush			
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 1000µm (40 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.

Intercrete concrete repair mortars can be applied approximately 2-6 hours after the application of the final coat of Intercrete 4871

REGULATORY DATA **Flash Point (Typical)** Not applicable

VOC 0 g/lt Calculated

See Product Characteristics section for further details

Protective Coatings

Steel Reinforcement Protection

SURFACE PREPARATION

Steel Reinforcement Surfaces

All surfaces to be coated should be clean and free from contamination. Prior to application all surfaces should be assessed and treated in accordance with ISO 8504:2000. Oil or grease should be removed in accordance with SSPC-SP1 solvent cleaning.

Abrasive Blast Cleaning

Abrasive blast clean to Sa2½ (ISO 8501-1:2007) or SSPC-SP6. Surface defects revealed by the blast cleaning process should be ground, filled, or treated in the appropriate manner.

A sharp, angular surface profile of 75-100 microns (3-4 mils) is recommended.

Hand or Power Tool Preparation

Hand or power tool clean to a minimum St3 (ISO 8501-1:2007) or SSPC-SP3.

This method of surface preparation is only acceptable where abrasive blast cleaning is not possible due to environmental constraints. There should be no chlorides present in the surrounding concrete.

Hand or power tool prepared surfaces should be coated as soon as possible. The time between surface preparation and application must not exceed 24 hours.

Intercrete 4871 can be applied to damp steel substrates where excess standing or pooled water has been removed.

APPLICATION

Mixing	Intercrete 4871 is supplied in two parts; a liquid binder component (Part A) and a powder component (Part B). 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. Once the unit has been mixed it should be used within the working pot life specified.	
	For small repair areas, mix quantities for 2-3 minutes using the kit supplied to give a smooth lump free consistency. Use the mix ratio provided.	
	Do not add water or other materials to this product.	
Mix Ratio	1 part(s) : 3 part(s) by volume	
Working Pot Life	20°C (68°F) 60 minutes	
Brush	Recommended	Small areas only
Thinner	DO NOT THIN	
Cleaner	Clean Water	
Work Stoppages	Thoroughly clean all equipment with clean water. Product containers should be resealed to prevent drying out of the product.	
Clean Up	Clean all equipment immediately after use with clean water.	
	All surplus materials and empty containers should be disposed of in accordance with appropriate regional regulations/legislation.	

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PRODUCT CHARACTERISTICS

Always consult the Intercrete 4871 Application Guidelines prior to use.

This datasheet provides general guidance on the use of Intercrete 4871. 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 4871 is suitable for the intended end use.

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

Intercrete 4871 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).

Surface temperature must always be a minimum of 3°C (5°F) above dew point.

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).

Mechanical Characteristics

(typical values)

Compressive Strength	35MPa
Flexural Strength	10Mpa
Water Permeability	6 x 10 ⁻¹⁶ m/s (2mm DFT of Intercrete 4871 = 1000mm of typical concrete)

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

Intercrete 4871 should always be applied directly to correctly prepared steel reinforcement.

The following repair mortar(s) should be used in combination with Intercrete 4871:

Intercrete 4801
Intercrete 4802

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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 4871 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

5kg packs
For availability of other pack sizes, contact International Protective Coatings.

SHIPPING WEIGHT (TYPICAL)

Unit Size	Weight
5 kg	5.11 kg

STORAGE

Shelf Life	12 months minimum at 25°C (77°F).
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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.

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