

Pore Filler & Screed

PRODUCT DESCRIPTION

Supplied as a single component, fibre reinforced, waterproof screed or fairing coat.
Requires the addition of clean water at site.

INTENDED USES

Specifically designed as a waterproof filler for minor voids and defects to provide a suitable surface finish for the subsequent application of Intercrete concrete protection systems.

Can also be used as a thin film waterproof screed to level both horizontal and vertical concrete surfaces.

PRACTICAL INFORMATION FOR INTERCRETE 4820

Colour	Grey			
Gloss Level	Matt			
Volume Solids	100%			
Typical Thickness	Up to a maximum of 6mm (0.24 inches) dry			
Theoretical Coverage	Typically 5m ² at 3mm (0.12 inches) dry film thickness per 25kg supplied			
Practical Coverage	Allow appropriate loss factors			
Density	1860 kg/m ³ (116.114 lb/ft ³)			
Method of Application	Float, Hand Moulding, Trowel			
Drying Time	Overcoating interval with self			
Temperature	Touch Dry	Hard Dry	<i>Minimum</i>	<i>Maximum</i>
20°C (68°F)	5 hours	7 hours	3 hours ¹	7 days ²

¹ For multi-layer screed applications, it is important to ensure that previous layers have been finished using wood or plastic float techniques and that the surface is not fully set prior to the application of the next layer

² If the maximum overcoating interval is exceeded the surface must be thoroughly cleaned and saturated prior to overcoating.

REGULATORY DATA

Flash Point (Typical)	Not applicable		
VOC	0 g/ltr	Calculated	

See Product Characteristics section for further details

Protective Coatings

Pore Filler & Screed

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 larger voids and exposed steel reinforcement must be treated using the appropriate Intercrete products. Consult the Intercrete 4820 Application Guidelines for further information.

Thoroughly soak the substrate with clean water until fully saturated. Remove excess water prior to application of Intercrete 4820.

The compressive strength of the concrete substrate should be a minimum of 20MPa.

APPLICATION

Mixing Intercrete 4820 is supplied as a single component powder. Pour 2.8 - 3.2 litres of clean water into a mixing vessel then add one 25kg bag of Intercrete 4820. Mix using a slow speed drill and paddle with a maximum speed of 750rpm. Mix for 2-3 minutes to an even consistency. **Do not use a concrete mixer**

Mix Ratio For part mixing, use 6.5 part(s) Intercrete 4820: 1 part(s) Clean Water by volume

Working Pot Life 20°C (68°F)
30 minutes

Intercrete 4820 Application

Float is recommended for screed application; typical thickness is up to 6mm (0.24 inches)

Hand Moulding is recommended for small areas, using a sponge or rag

Trowel is recommended for localised minor voids and defects. Alternatively, a palette knife may be used

Thinner **DO NOT THIN**

Cleaner Clean Water

Work Stoppages Use immediately after mixing and discard once the working pot life has exceeded.

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 4820 Application Guidelines prior to use.

This datasheet provides general guidance on the use of Intercrete 4820. Specific project requirements will be dependent upon the substrate condition, service end use and environmental conditions. Always consult International Protective Coatings to confirm that Intercrete 4820 is suitable for the intended end use.

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

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

For screed applications, prior to the last layer being fully set, trowel marks can be removed using a float or damp sponge to produce a surface comparable to sand paper. This will provide a good foundation for application of subsequent coatings.

It is important that the surface of Intercrete 4820 is protected from strong sunlight and drying winds. To aid curing, Intercrete 4870 curing membrane should be applied directly over Intercrete 4820. Alternatively, polythene sheeting can be used.

Mechanical Characteristics

(typical values)

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

1 day 23MPa

7 days 46MPa

28 days 60MPa

Flexural Strength (BS4551 @ 20°C (68°F, 65% R.H))

28 days 10MPa

Water permeability: 1mm = 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

Depending upon the condition of the substrate and any exposed steel reinforcement, additional surface preparation products from the Intercrete range may be required in combination with the application of Intercrete 4820. Consult International Protective Coatings for further details.

The following topcoats are recommended for Intercrete 4820:

Intercrete 4820

Intercrete 4840

Pore Filler & Screed

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 4820 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.

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

PACK SIZE

25kg 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).

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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