Intercrete® 4820

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 5m² at 3mm (0.12 inches) dry film thickness per 25kg supplied
Practical Coverage	Allow appropriate loss factors
Density	1860 kg/m³ (116.114 lb/ft³)
Method of Application	Float, Hand Moulding, Trowel

Drying Time

			Overcoating interval with self	
Temperature	**Touch Dry**	**Hard Dry**	*Minimum*	*Maximum*
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/lt	Calculated

See Product Characteristics section for further details

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.

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

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

www.international-pc.com