

Polymer Modified Cementitious Coating

PRODUCT DESCRIPTION

A two component, fast drying, water based epoxy and polymer modified cementitious flooring for the levelling and protection of concrete substrates.

Intercrete 4852 exhibits both excellent flow characteristics and ease of application by pouring or pumping techniques to give a smooth surface finish.

INTENDED USES

Specifically designed for the structural waterproofing and protection of concrete floors where improved chemical and abrasion resistance is required.

Intercrete 4852 offers low permeability to water at 10 bar positive and negative pressure along with excellent resistance to carbon dioxide gas and chloride ion diffusion.

Intercrete 4852 is the ideal choice where rapid return to service is required and/or green concrete is the likely substrate.

PRACTICAL INFORMATION FOR INTERCRETE 4852

| | | | | |
|------------------------------|---|----------------------|----------------|----------------|
| Colour | Grey | | | |
| Gloss Level | Matt | | | |
| Volume Solids | 100% (based on wet film thickness applied being equal to dry film thickness) | | | |
| Typical Thickness | 3000 - 6000 microns (120 - 240 mils) dry film thickness | | | |
| Theoretical Coverage | Typically 5m ² at 3000 microns (120 mils) dry film thickness per 30kg composite pack | | | |
| Practical Coverage | Allow appropriate loss factors | | | |
| Density | 1950 kg/m ³ (121.733 lb/ft ³) | | | |
| Method of Application | Serrated Trowel, Skid Leveller, Float | | | |
| Drying Time | Overcoating Interval with recommended topcoats | | | |
| Temperature | Touch Dry | Hard Dry | <i>Minimum</i> | <i>Maximum</i> |
| 20°C (68°F) | 2 hours | 4 hours ¹ | 24 hours | Not applicable |

¹ Applied at 3000 microns (120 mils) thickness to the substrate. This is the minimum walk-on time

REGULATORY DATA

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

See Product Characteristics section for further details

Protective Coatings

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 4852 Application Guidelines for further information.

All concrete floors and decks should be appropriately sealed using Intercrete 4850.

APPLICATION

Mixing

Intercrete 4852 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. Once the unit has been mixed it should be pumped or poured onto the substrate and used within the working pot life specified.

Working Pot Life

20°C (68°F)
30 minutes

Intercrete 4852 Application

Typical application method of Intercrete 4852 is skid levelling followed by de-aeration using spiked roller. For detailed areas such as joins to adjacent intact flooring a serrated trowel should be used.

Thinner

DO NOT THIN

Cleaner

Clean Water

Work Stoppages

Do not allow material to remain in pumps and associated hoses. Thoroughly flush all equipment with clean water.

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 4852 Application Guidelines prior to use.

This datasheet provides general guidance on the use of Intercrete 4852. 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 4852 is suitable for the intended end use.

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

Intercrete 4852 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).

All construction, expansion joints and live cracks in the existing floor must be continued through into the new coating and filled with an appropriate sealant.

Intercrete 4840 embedded with Intercrete 4872 tape can be used to accommodate any anticipated movement over cracks and around joints. Consult International Protective Coatings for further details.

Care should be taken to avoid air entrapment during application.

In cold, humid conditions, condensation may form on the surface of Intercrete 4852 resulting in a darker finish and an increase in cure time.

It is important that the surface of Intercrete 4852 is protected from strong sunlight and drying winds. To aid curing, Intercrete 4870 curing membrane should be applied directly over Intercrete 4852.

For an improved anti-slip and abrasive resistant surface, immediately broadcast a suitable grit or sand into the wet surface of Intercrete 4852. An approximate coverage rate is 5kg/m². Consult International Protective Coatings for further details.

Mechanical Characteristics

(typical values)

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

4 hours 5.0MPa

1 day 15.0MPa

7 days 25.0MPa

28 days 42.5MPa

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 prior to the application of Intercrete 4852.

Consult International Protective Coatings for further details.

All concrete floors should be appropriately sealed using Intercrete 4850 prior to the application of Intercrete 4852.

The following topcoat is recommended for Intercrete 4852:

Intercrete 4870

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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 4852 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)

| Unit Size | Part A | Part B |
|-----------|---------|----------|
| 30 kg | 5.04 kg | 25.08 kg |

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.

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