

FORMERLY FLEXCRETE MONORUB

PRODUCT DESCRIPTION

A single component, water-based (VOC-free), polymer modified cementitious mortar for the filling of blow-holes and small surface defects in precast and in-situ concrete, whilst providing an aesthetic yet durable finish. The incorporation of a polymer enhances adhesion and imparts a high degree of water repellency to the surface of concrete, making it denser and more impermeable. Once cured, if required it can be overcoated with specialist membranes in the Intercrete range to provide further protection and aesthetic quality.

INTENDED USES

Fine grade, polymer modified mortar for the filling of blow holes and small surface defects in pre-cast and in-situ concrete, to produce an aesthetic durable finish. Available in Grey and White versions to enable colour matching with the parent concrete.

CE-marked in accordance with BS EN 1504-3 Class R1. Suitable for repair methods 3.1 as defined by BS EN 1504-3.

PRACTICAL INFORMATION FOR INTERCRETE 4825

Volume Solids	100%
Density	2000kg/m³ (125lb/ft³)
Typical Thickness	Up to 2mm (80 mils) dry
Practical Coverage	A 25kg pack will cover: Grey: 7m² at 2mm thickness White: 8m² at 2mm thickness Practical coverage will depend upon the complexity and porosity of the area being coated and appropriate losses must be taken into consideration.

Method of Application Float, Bag-rub

Shelf Life Grey: 12 months at 20°C (68°F).
White: 24 months at 20°C (68°F).

Pack Size 25kg packs

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

Drying Time Overcoating interval with self

Temperature	Touch Dry	Hard Dry	Minimum	Maximum
20°C (68°F) ¹	1	1	1	1

¹ Not applicable

COMPLIANCE AND CERTIFICATION

When used as part of an approved scheme, this material has the following certification:

- CE-marked in accordance with BS EN 1504-3 Class R1.
- Suitable for repair methods 3.1 as defined by BS EN 1504-3.



Protective Coatings

Pore Filler & Screed

SPECIFICATION CLAUSE

The fairing coat shall be a fine grade, single component, polymer modified cementitious repair mortar. It shall be CE-marked in accordance with BS EN 1504-3 Class R1, and shall comply with the following performance specification:

- Compressive strength at 20°C (68°F) of at least 7MPa in 1 day and 35MPa in 28 days.
- Flexural strength at 28 days (20°C, 65% RH) of at least 8MPa in accordance with EN 196-1.

SURFACE PREPARATION

Concrete

The areas to be treated must be free from all unsound material, dust, oil, grease, corrosion by-products and organic growth. The prepared substrate should be thoroughly soaked with clean water until uniformly saturated without any standing water. Alternatively, porous substrates can be primed with Intercrete 4850.

APPLICATION

Mixing

Intercrete 4825 should be mechanically mixed in a clean drum using a slow speed drill and paddle with the mix ratios given. A normal concrete mixer is NOT suitable. Normal mixing time is approximately 2 minutes. Use without delay.

See page 3 Product Characteristics for water addition quantities.

Work Stoppages / 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.

Pore Filler & Scread

PRODUCT CHARACTERISTICS

Concrete

Do not use when the temperature is below 5°C (41°F) and falling. Do not use Intercrete 4825 on waterproof concrete without referring to the Protective Coatings Technical department. Not suitable for use on trafficked areas

Mixing

Mixed Colour	Water per 25kg (litres) Range *	Typical	Volume mix ratio Powder : Water
Grey	2.9 – 3.3	3.125	5:1
White	5.75 – 6.25	6.0	5:1

* depending on desired consistency

Placing

Apply by wooden or sponge faced float or 'bag rubbing' techniques, using a circular motion to completely fill all blow holes, cracks and other defects. As a final finishing process, before the material has fully hardened, excess material should be scraped from the surface using a steel float and any residue removed with a dry sponge.

Large surface defects and voids must first be pre-filled with Intercrete 4825 mixed to a stiffer consistency and applied by palette knife or steel float. This should be allowed to stabilise before application of a fine skim coat at the wetter consistency to give a fair-faced finish. Allow to cure for a minimum of 24 hours before overcoating.

CE mark applies to products manufactured at Tomlinson Road, Leyland, PR25 2DY England, under reference 2797-CPR-530942.

APPLICATION TIPS

- Experiment with blends of Grey and White to provide a colour match before undertaking repairs.
- Finish in the same direction to produce an even texture.
- Ensure all applicators use the same application techniques to avoid variation in the final finish.
- Apply from the top, working down, to avoid contaminating previously treated areas.
- When treating large flat panel areas, divide the surface into smaller sections using either lines from joins in the formwork or masking tape. Treat each section within the working life of the mixed material.
- If the mortar thickens, remix but DO NOT add extra water.
- Cold Weather Working (See separate Guide): $\geq 3^\circ\text{C}$ (37°F) on a rising thermometer, $\geq 5^\circ\text{C}$ (41°F) on a falling thermometer.
- Hot Weather Working (See separate Guide): Store material in cool conditions to maximise working life. Shade applied material from strong sunlight. If possible, avoid extreme temperatures by working at night.

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TECHNICAL DATA / MECHANICAL CHARACTERISTICS

Standard and Property	BS EN 1504-2 Requirement	Result
EN 12190 Compressive Strength	>= 10 MPa (Class II)	28 days: 60.0 MPa (Grey) 35.0 MPa (White)
BS4551 Compressive Strength Development @ 20°C (Grey)		1 day : 30MPa 7 days: 55MPa 28 days: 65MPa
BS4551 Compressive Strength Development @ 20°C (White)		1 day : 7MPa 7 days: 25MPa 28 days: 35MPa
EN 1542 Adhesive Bond (concrete)	>= 0.80 MPa	2.73MPa (Grey) 2.06MPa (White) Class R4 >=2.0 MPa
EN 1015-17 Chloride Ion Content	<= 0.05%	0.004%
EN196-1 Flexural Strength		8.5 MPa (Grey) 8.0 MPa (White)
BS EN1770 Coefficient of Thermal Expansion	Declared Value	1.73 x 10 ⁻⁵ °C ⁻¹ (Grey) 1.49 x 10 ⁻⁵ °C ⁻¹ (White)
EN 13501-1 Reaction to Fire	Euroclass	Euroclass F

Note: The properties given above are obtained from laboratory tests: results obtained from on-site testing may vary according to site conditions.

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 Safety Data Sheet and the container(s), and should not be used without reference to the Safety Data Sheet (SDS).

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.

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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