

Water Based Acrylic

FORMERLY FLEXCRETE MONODEX SMOOTH

PRODUCT DESCRIPTION

A single component, low VOC, water-based, high build, decorative waterproof coating based on an advanced micropolymer resin binder which cross-links to give outstanding durability over a service life of 15 years. It provides protection against water ingress and carbonation whilst allowing damp substrates to breathe. Its elastomeric nature facilitates substrate movement and bridging of hairline cracks. It is available in a range of attractive colours and contains an active biocide to inhibit mould and lichen growth.

INTENDED USES

Designed to provide protection against carbonation and water ingress whilst allowing the substrate to breathe. Low water vapour diffusion resistance allows damp substrates to breathe and dry out without blistering. Resists the growth of mould and fungi.

CE-marked in accordance with BS EN 1504-2. Suitable for surface protection systems principles 1.3, 2.2, 8.2 as defined in BS EN 1504-2.

PRACTICAL INFORMATION FOR INTERCRETE 4891

Volume Solids	59%
Density	1.42kg/l (11.8lb/gal)
Typical Thickness	Apply two coats of 120 microns (4.8 mils) dry equivalent to 203 microns (8.1 mils) wet per coat.
Practical Coverage	5m ² /litre per coat, 2 coats required. 15 litres will cover approximately 37.5m ² on smooth, non-absorbent surfaces. Practical coverage will depend upon the surface profile and porosity of the area being coated and appropriate losses must be taken into consideration
Method of Application	Airless Spray, Roller, Brush
Shelf Life	24 months at 20°C (68°F).
Pack Size	15 litre packs

Drying Time	Overcoating interval with self			
	Touch Dry	Hard Dry	Minimum	Maximum
Temperature				
10°C (50°F)	4 hours	24 hours	4 hours	Not applicable
20°C (68°F)	2 hours	18 hours	2 hours	Not applicable
30°C (86°F)	60 minutes	2 hours	60 minutes	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 1504-2.
- Suitable for surface protection systems principles 1.3, 2.2, 8.2 as defined in BS EN 1504-2.



Protective Coatings

Water Based Acrylic

SPECIFICATION CLAUSE

The anti-carbonation coating shall be a single component, high build, waterproof coating incorporating a micropolymer, cross-linking resin. It shall be CE-marked in accordance with BS EN 1504-2, and shall comply with the following performance specification:

- Carbon dioxide diffusion resistance number of no less than 1.33×10^6 in accordance with BS EN 1062-6 (equivalent concrete thickness of 798mm and equivalent air layer thickness 320m at 239µm dry film thickness).
- No blistering, cracking or flaking after at least 20000 hours QUV-B weathering in accordance with EN 1062-11.
- Water vapour transmission no less than 46g/m²/day in accordance with BS EN ISO 7783-2.

SURFACE PREPARATION

Concrete

The areas to be treated must be free from unsound material, i.e. dust, oil, grease, corrosion by-products and organic growth. Mechanically remove surface laitance and any soft, sandy or flaking material. Use techniques to achieve the required degree of preparation, such as wet grit or water blasting or equivalent approved methods. Intercrete Concrete Repair Mortars must be allowed to cure for a minimum of 24 hours. Concrete and cementitious screeds or renders must be a minimum of 10 days old and preferably 28 days old.

APPLICATION

Mixing

Intercrete 4891 is a one component product and should always be mixed thoroughly prior to use.

Airless Spray

Suitable for smooth substrates only.

Tip Range 0.43-0.59 mm (17-23 thou)

Total output fluid pressure at spray tip not less than 176 kg/cm² (2500 p.s.i.)

Brush

Recommended

For brush application, use wide, soft nylon or bristle brushes.

Roller

Recommended

For roller application use heavy nap ¾" or 1" synthetic cover.

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.

Water Based Acrylic

PRODUCT CHARACTERISTICS

Priming

Ensure concrete substrate moisture content is less than 20% wood moisture equivalent. Apply Intercrete 4816 (formerly Flexcrete Bond-Prime) to prepared surfaces at a rate of up to 5m²/litre by brush, roller or airless spray. Ensure complete coverage; rough or porous surfaces will increase consumption.

Application

Apply the first coat of Intercrete 4891 by brush, roller or airless spray. Allow to dry for 1-4 hours in ideal conditions, until touch dry, before applying a second coat. To assist application and to act as a guide to coverage, each coat may be applied in a contrasting colour.

Reinforcing Cracks and Joints

Intercrete 4891 will accommodate hairline cracks but larger static cracks will require to be filled with the appropriate Intercrete filler. Fill live cracks, construction joints and joints between dissimilar materials with a suitable exterior grade flexible filler and reinforce the membrane with an Intercrete tape embedded in the Intercrete 4891 centrally over the crack or joint. Allow to dry and if necessary, lightly sand to remove any prominent edges before overcoating the whole area with two coats of material. Overall reinforcement incorporating random weave glass fibre matting may be used over larger areas. Please contact International Protective Coatings for further advice.

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

APPLICATION TIPS

- If possible, complete work using only one batch number. As with any paint, avoid using different batches on the same elevation or inter-mix batches to ensure full continuity of colour.
- Rough, porous or irregular substrates will reduce coverage.
- To assist application and to act as a guide to coverage rates during application, base coat may be applied in a similar but contrasting colour.
- Regularly check coating thickness during application using the wet film thickness gauge available from AkzoNobel.
- Clean brushes and rollers occasionally during use.
- Clean spray nozzles regularly to avoid blockages.
- Curing/drying time is temperature dependent. See Page 1 for further details.
- The product is through-cured in 2-24 hours, dependent on ambient temperature.
- 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.
- Do not use any product which has been frozen.
- Protect from prolonged storage at temperature higher than 35°C (95°F).

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TECHNICAL DATA / MECHANICAL CHARACTERISTICS

Standard and Property	BS EN 1504-2 Requirement	Result
EN 1542 Adhesive Bond (concrete)	≥ 0.80 MPa Crack bridging or flexible systems	2.50 MPa
EN ISO 7783-2 Water Vapour Permeability (Equivalent Air Layer Thickness)	Class 1 (Permeable) $S_D \leq 5$ m	$S_D = 0.48$ m
EN 1062-6 Method A Permeability to CO ₂	$S_D \rightarrow \geq 50$ m (R)	$S_D = 320$ m @ 240µm DFT
Equivalent Concrete Thickness		$S_c = 798$ mm
EN 1062-3 Liquid Water Transmission Rate (Capillary Absorption and Permeability to Liquid water)	Class III (Low) $w \geq 0.1$ kg.m ⁻² .h ^{-0.5}	$w = 0.014$ kg.m ⁻² .h ^{-0.5} @ 240µm
BS 903 Part A2 Elongation at Break		279% at 240µm DFT (Unreinforced) 27% at 1100µm DFT (Reinforced GFM 225)
BS 903 Part A2 Tensile Strength		1.40 MPa
EN 1062-11 Accelerated Weathering		No blistering, cracking or flaking after 20,000 hours QUV-B weathering
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.

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