

Water Based Acrylic

FORMERLY FLEXCRETE MONODEX METALLIC

PRODUCT DESCRIPTION

A single component, low VOC, waterborne, translucent coating that offers an excellent defence against carbon dioxide ingress and the effects of weathering, significantly prolonging the maintenance free life of buildings and structures. Applied over a complementary pigmented Intercrete base coat system, it forms a translucent reflective metallic satin finish to create a feature appearance. It prevents water ingress, yet allows damp substrates to breathe and dry out, and is both dirt and UV resistant. Protection from the growth of mould and fungi is assured with the use of advanced encapsulated biocide technology to help maintain its appearance.

INTENDED USES

To provide protection from the effects of carbonation and an effective barrier to water penetration and the ingress of airborne chlorides, whilst also allowing the release of moisture from the substrate. Designed for application over a complementary pigmented Intercrete base coat system to produce a metallic satin effect finish on external façades and other structures. Equally suited for internal use, providing a unique appearance to decorative elements in high profile construction.

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 4894

Volume Solids	38%			
Density	1.1kg/l (9.16lb/gal)			
Typical Thickness	Apply two coats of 75 microns (3 mils) dry equivalent to 197 microns (7.9 mils) wet per coat			
Practical Coverage	15 litres will cover approximately 37.5m ² on smooth, non-absorbent surfaces. 5m ² per litre per coat (2 coats required). 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	Brush, Spray			
Shelf Life	24 months at 20°C (68°F).			
Pack Size	15 litre packs			
Drying Time	Overcoating interval with self			
Temperature	Touch Dry	Hard Dry	<i>Minimum</i>	<i>Maximum</i>
10°C (50°F)	2 hours	12 hours	2 hours	Not applicable
20°C (68°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

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SPECIFICATION CLAUSE

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

- Permeability to carbon dioxide $2.76 \times 10^{-7} \text{ cm}^2/\text{s}$ in accordance with EN 1062-6 (equivalent concrete thickness 210mm and equivalent air layer thickness 83m at 150µm dry film thickness).
- No blistering, cracking or flaking after 2,500 hours QUV-B weathering in accordance with EN 1062-11.
- Water vapour transmission $50\text{g}/\text{m}^2/\text{day}$ in accordance with BS EN ISO 7783-2.

SURFACE PREPARATION

Concrete

The complementary pigmented Intercrete base coat system must be applied in compliance with the requirements set out in the separate Technical Data Sheet and Application Guide

Allow to cure, typically 24 hours, prior to proceeding with the application of Intercrete 4894.

Prior to work continuing, ensure the surfaces are clean, dry and free from all unsound material, i.e. dust, oil, or grease. In coastal locations, any airborne salt deposits should be washed off.

APPLICATION

Mixing

Intercrete 4894 must be thoroughly stirred with a slow speed drill and paddle for a minimum of 2 minutes to produce an even mix, free of streaks. Care must be taken to ensure excess air is not introduced into the coating during the mixing operation.

Airless Spray

Recommended

Tip Range 0.29-0.48 mm (11-19 thou)

Total output fluid pressure at spray tip not less than $176 \text{ kg}/\text{cm}^2$ (2500 p.s.i.)

Brush

Recommended

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

Roller

Recommended

Use a medium pile synthetic cover

Work Stoppages / Clean Up

Clean all equipment immediately after use with clean water. It is good working practice to periodically flush out spray equipment during the course of the working day. Frequency of cleaning will depend upon amount sprayed, temperature and elapsed time, including any delays.

All surplus materials and empty containers should be disposed of in accordance with appropriate regional regulations/legislation.

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PRODUCT CHARACTERISTICS

Application

Apply Intercrete 4894 over the clean, dry surface of the complementary pigmented Intercrete base coat system by brush, roller or airless spray at the coverage rate given below. Take care not to entrap air into the coating. Allow to become touch dry, typically 1-2 hours, before applying a second coat as above. Do not apply if rain is imminent.

Airless spray application is suitable for smooth substrates; always finish off in one direction.

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

APPLICATION TIPS

- Metallic pigments will settle on storage. Stir thoroughly for a minimum of 2 minutes using a slow speed drill and paddle to produce an even, streak free mix prior to use.
- Rough, porous or irregular substrates will reduce coverage.
- Regularly check coating thickness during application using the wet film thickness gauge available from AkzoNobel.
- Take care not to entrap air as this will affect the finish.
- 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.
- 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	>3.00 MPa
EN ISO 7783-2 Water Vapour Permeability (Equivalent Air Layer Thickness)	Class 1 (Permeable) $S_D \leq 5$ m	$S_D = 0.42$ m
EN 1062-6 Method A Permeability to CO ₂	$S_D \geq 50$ m (R)	83m @ 150µm DFT
Equivalent Concrete Thickness		$S_C = 210$ mm
EN 1062-3 Liquid Water Transmission Rate (Capillary Absorption)	Class III (Low) $w \geq 0.1$ kg.m ⁻² .h ^{-0.5}	$w = 0.02$ kg.m ⁻² .h ^{-0.5}
BS 903 Part A2 Elongation at Break		164%
EN 1062-11 Accelerated Weathering		No blistering, cracking or flaking after 2,500 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.

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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