

## Water Based Acrylic

### FORMERLY FLEXCRETE MONODEX CLEAR

#### PRODUCT DESCRIPTION

A single component, low VOC, transparent 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 without a primer, it forms a clear, satin finish that retains the original appearance of the concrete substrate to which it is applied. It prevents water ingress, yet allows damp substrates to breathe and dry out, and is both dirt and UV resistant. Long term protection from the growth of mould and fungi is assured with the use of advanced encapsulated biocide technology to help maintain its original appearance.

#### INTENDED USES

Specifically designed for application to external walls and façades providing an effective barrier to water penetration and offering complete protection from the effects of carbonation. Enhances the natural appearance of the underlying substrate. Intercrete 4893 is self-priming and rapid drying, allowing two coats to be applied in a single day. Cures to form a clear, satin finish which sheds dirt and retains clarity throughout its long life.

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 4893

<b>Volume Solids</b>	38%			
<b>Density</b>	1.04kg/l (8.66lb/gal)			
<b>Typical Thickness</b>	Apply two coats of 75 microns (3 mils) dry equivalent to 197 microns (7.9 mils) wet per coat.			
<b>Practical Coverage</b>	5m <sup>2</sup> /litre per coat, 2 coats required. 15 litres will cover approximately 37.5m <sup>2</sup> 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			
<b>Method of Application</b>	Brush, Roller, Airless spray			
<b>Shelf Life</b>	24 months at 20°C (68°F).			
<b>Pack Size</b>	5 litre and 15 litre packs			
<b>Drying Time</b>	Overcoating interval with self			
<b>Temperature</b>	<b>Touch Dry</b>	<b>Hard Dry</b>	<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

## Water Based Acrylic

### SPECIFICATION CLAUSE

The anti-carbonation coating shall be a single component, water-borne, transparent coating. It shall be CE-marked in accordance with BS EN 1504-2, and shall comply with the following performance specification:

- Permeability to carbon dioxide no greater than  $2.76 \times 10^{-7} \text{cm}^2/\text{s}$  in accordance with EN 1062-6 (equivalent concrete thickness of 210mm and equivalent air layer thickness 83m at 150µm dry film thickness).
- No blistering, cracking or flaking after at least 2500 hours QUV-B weathering in accordance with EN 1062-11.
- Water vapour transmission no greater than  $50\text{g}/\text{m}^2/\text{day}$  in accordance with BS EN ISO 7783-2.

### SURFACE PREPARATION

#### Concrete

The areas to be treated must be free from all unsound material, i.e. dust, oil, grease, corrosion by-products and organic growth. Surface laitance and any soft, sandy or flaking material should be removed by mechanical means back to sound surfaces, suitable for treatment. Use techniques capable of achieving the required degree of preparation. Fill static cracks and other minor defects such as blow holes to achieve a super-fine finish with Intercrete 4825. Allow to cure for a minimum of 24 hours before proceeding.

Substrates contaminated by mould, algae, mildew, bacteria and so on require pre-treatment with Intercrete 4815. Visible areas of growth and associated underlying loose paint or substrate must be removed by mechanical means and the substrate treated with Intercrete 4815.

### APPLICATION

#### Mixing

Intercrete 4893 is a one component product and should always be mixed thoroughly prior to use.

#### Airless Spray

Suitable for smooth substrates only.

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

For roller application use heavy nap  $\frac{3}{4}$ " or 1" 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 the first coat of Intercrete 4893 by brush, roller or airless spray. Allow to dry for 1-2 hours in ideal conditions, until touch dry, before applying a second coat. 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.

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### APPLICATION TIPS

- 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 product's transparency
- Clean brushes and rollers occasionally during use.
- Clean spray nozzles regularly to avoid blockages.
- 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)	$\geq 0.80$ MPa Crack bridging or flexible systems	$>3.42$ MPa
BS 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 <sub>2</sub>	$S_d \geq 50$ m (R)	$S_d = 83$ m @ 150µm DFT
Equivalent Concrete Thickness		$S_c = 210$ mm @ 150µm DFT
EN 1062-3 Liquid Water Transmission Rate (Capillary Absorption and Permeability to Liquid water)	Class III (Low) $w > 0.1$ kg.m <sup>-2</sup> .h <sup>-0.5</sup>	$w = 0.02$ kg.m <sup>-2</sup> .h <sup>-0.5</sup> @ 154µm DFT
BS 903 Part A2 Elongation at Break		164%
BS 903 Part A2 Tensile Strength		1.15 Mpa
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](http://www.international-marine.com) or [www.international-pc.com](http://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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