Mortars

Comentitious

Engineering

# **DECTECK F**

USE WITH DECTECK PRIMER W

TECHNICAL DATA

#### **Product Codes**

ACR21, ACR22, Packaging listed overleaf

### **Description**

Decteck F is a pre-packaged, water based, acrylic modified, flexible, decorative and protective surface The product has high anticarbonation properties and due to the applied coating flexibility, coating allows substrate movement and provides excellent crack bridging ability. The coating also provides a waterproof coating that gives resistance to the ingress of deleterious substances harmful to reinforced concrete or masonry. It is specially formulated to be microporous to prevent the build up of pore water pressure or condensation on the inside face of treated walls. Decteck F may be applied by spray, roller or brush onto a wide range of construction materials including concrete, masonry, wood and suitably primed metal. A full range of colours is available to special order to British Standard or Euro Codes.

Decteck F is non-drip and may be applied as a smooth or textured finish with a low sheen which diffuses irregularities in surface profiles. The coating is applied over Decteck Primer W and has excellent adhesion to construction substrates, is based on colourfast pigments and is resistant to ultraviolet light. The finished coating is designed to give resistance to carbonation and attack from other weather born agents. The application of the coating at a dry film thickness (DFT) of 0.2mm is equivalent to 745mm of concrete cover.

#### **Specification Outline**

Anticarbonation protective coating shall be carried out using Decteck F as manufactured by Tecroc Products Ltd. The product must be stored, handled and used strictly in accordance with the manufacturer's instructions.

#### **Quality Assurance**

Tecroc Products Ltd is a firm of Assessed Capability. The Company's quality system conforms to BS EN 9002;1994 and is assessed by SGS Yarsley International Certification Services Ltd. Uses include: Prevention of carbonation and

sulphate attack in concrete and other cementitious materials. Waterproof, protective and decorative coating.

Protection against ingress of de-icing salts weathering and the effects of freeze/thaw cycles.

## **Typical Coating Properties**

CO<sub>2</sub> diffusion coefficient at DFT 200µm

 $1.0 \times 10^{-11} \,\mathrm{m}^2 / \mathrm{s}$ 

Equivalent air thickness R = 298m

Equivalent thickness of concrete Sc = 745mm

Water vapour diffusion coefficient at DFT 320µm  $3.25 \times 10^{-8} \,\mathrm{m}^2/\mathrm{s}$ 

Equivalent air thickness sd = 248mm

#### Klopfer criteria for acceptable anticarbonation coating

R greater than 50m

sd less than 4m

Taylor Woodrow certificates available on request.

#### Wet spread rates

Decteck Primer W 6m<sup>2</sup>/litre

Decteck F 5m<sup>2</sup>/litre/coat gives DFT 100µm / coat Apply 2 coats to achieve minimum of 200µm DFT

DFT range 220µm to 330µm

#### Volume solids Decteck F

Drying times @ 20 °C

Touch dry	Film dry	Overcoat
2 – 4 Hours	4-8 Hours	4 - 8 Hours

Times will vary with temperature, humidity and air movement.

#### **Elongation At Break**

Film thickness 0.15mm:

Elongation 120% (1.0cm stretched to 2.2cm)

Film thickness 0.35mm:

Elongation 300% (1.0cm stretched to 4.0cm)

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## **DECTECK F**

#### USE WITH DECTECK PRIMER W

#### **Instructions For Use**

#### **Preparation**

All surfaces to which Decteck F is to be applied must be thoroughly prepared. All substrates should be sound and dry, with all loose friable material removed. Heavily contaminated surfaces must have dust, dirt, oil, grease, previous coatings or organic growths removed. This may be achieved by water jetting, grit blasting or mechanical means. All loose dust and debris should be blown out of cracks and crevices by oil free compressed air.

Any patch repairs should be carried out using the Tecroc Concrete Repair System.

#### Mixing

Decteck F should be used direct from the tin. No additional water should be added.

#### **Application**

Following all preparation and repairs, the surface should be primed with Decteck Primer W at a spread rate of approximately 4 - 10m<sup>2</sup> per litre dependant on the surface porosity. Allow the primer to achieve a touch dry surface. Time scale approximately 30 minutes in drying conditions.

To the primed surface apply Decteck F by brush, roller or airless spray. To achieve a dry film thickness of 200 µm, to give full anticarbonation properties, the wet theoretical spread rate is two coats each at 5m<sup>2</sup> per litre.

Note that the actual spread rate will vary with surface profile or texture. The second coat should be placed after the first coat is dry. Time scale approximately 4-8 hours depending on ambient conditions.

Decteck F should not be applied at temperatures less than 5°C or if relative humidity is above 80%. It should not be applied in damp/wet conditions or if rain is threatened before drying can take place. Wash brushes and rollers with clean water before Dectack F dries.

#### **Precautions**

#### **Health & Safety**

Decteck F and Decteck Primer W are resin based products. Resins and solvents may cause allergic reactions in some people. Wear gloves, use barrier cream on unprotected skin areas and wear eye protection when mixing, using and cleaning. Ensure adequate ventilation to prevent inhalation of vapours. If skin contact occurs remove resin immediately with cleansing cream and wash with soap and water. Do not use Solvent. Should eye contact occur rinse immediately with plenty of clean water and seek medical advice. If swallowed do not induce vomiting. Seek medical advice immediately. Full health and safety data are given in Product Safety Data Sheet.

#### Fire

Decteck F is non-flammable. Decteck Primer W is non-flammable.

#### Yield

Decteck Primer W is applied at 6m<sup>2</sup> per litre. Decteck F is applied at 4m<sup>2</sup> to 10m<sup>2</sup> / litre / coat.

#### **Storage And Shelf Life**

Decteck F and Decteck Primer W should be stored under cover within the temperature range of 5°C to 32°C. These products must be protected from frost. Under these storage conditions the products will have a shelf life of 12 months.

#### **Packaging and Ordering**

Decteck F is supplied in:

Product Code ACR21 Contract packs are available to special order.

Decteck Primer W is supplied in:

5 litre tins Product Code ACR22

For further information and sales please contact your local Tecroc Products office as listed below.

Tecroc Products Ltd products are guaranteed against defective materials and manufacture. Products are sold subject to the Tecroc Products Ltd Terms and Conditions of Sale, copies of which are forwarded on invoice and are available on request. Tecroc Products Ltd endeavors to ensure that the above data and any further advice is correct, however, it cannot accept any direct or indirect liability for the use of its products as such usage is beyond its control.

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