



Technical Data Sheet

Description

Tek-Coat AC is a single component water-based high performance elastomeric anti-carbonation and decorative protective coating. It is designed to provide resistance and protection against chloride ingress. These superior properties are further enhanced by the availability of a selective range of colours for aesthetics.

Advantages

- Water-based coating
- Breathable
- Formaldehyde free
- Non-flammable
- UV Resistance
- VOC complaint
- Available in selected range of standard colors

Uses

- Anti-carbonation coating
- Bridges
- Tunnels
- Anti-chloride coating
- External weather proof coating

Physical Properties*

Property	Typical Results
Water vapor transmission	>150 g/m ² .d
Chloride ion diffusivity	Nil
Reduction in chloride ion penetration	97%
Reduction in water absorption	95%
Water sorptivity	0.006 mm/min ½
Tear resistance	13 Pa
Bond strength to concrete	Greater than cohesive strength of concrete

Tek-Prime AC	
Solid content	>10% active ingredients
Specific gravity	0.88 @ 25°C
Water sorptivity	0.007 mm/min ½
Rapid chloride permeability	Low
Chloride ion diffusivity	Nil
*The above properties are average laboratory values	

Application Properties

Dry film thickness	Two coats of 150 microns DFT each coat
Touch dry	6 hours at 25°C 4 hours at 35°C
Minimum overcoat time	4 to 6 hours
Maximum overcoat time	24 hours
Full cure	7 days

Volatile Organic Content

VOC <10g/L

Fire performance

BS 476 Part 7: Class 1 surface spread of flame

Packing

Tek-Coat AC is available in 5 lt. & 20 lt. pack.

Theoretical Coverage

8.3 square meters per litre at 150 microns WFT / DFT (2 coats recommended at above thickness)

Shelf Life

18 months when stored in cool dry environment in factory packed unopened containers.

Installation Guidelines

Spraytek provides detailed method statements on all its products for use in various applications. These must be referred to prior to starting the work. The information below is a summary intended for guidance only.

Surface Preparation

Concrete substrate must be structurally sound. Loose or unsound concrete should be removed. Surfaces must be entirely free of oil, grease, paint, corrosion deposits, dust, laitance or other surface deposits. The substrate must be prepared to create a 'key' for bonding by grit blasting or high pressure water blasting. Any blow holes should be filled with **Tek-Crete CFC**. The moisture content of the concrete substrate should be less than 7%.

Priming

The substrate must be primed using **Tek-Prime AC** primer and allow to dry, prior to application of **Tek-Coat AC**. Ensure that no ponding of the primer during the application and applied to appropriate thickness and it is not applied too thick. If the primed surfaces left to dry for more than 24 hours the surfaces has to re-primed.

If the concrete substrates are too porous, then it is recommended to use multiple coats of **Tek-Prime AC** to seal of the surfaces.

Mixing

Tek-Coat AC is supplied as a single component product. Make sure to shake the drum and stir the product prior to application.

Application

Apply in two coats of 150 microns per coat WFT using roller, brush or airless spray. When using airless spray, tip size should be 0.017" to 0.0020" at a pressure 2200 psi. The product can be thinned by 5%, if necessary, using clean water but the WFT should be maintained accordingly. Reocat if necessary after 4 to 16 hours at 35°C.

Precautions

Do not add any thinner or solvent.

Do not apply in wet conditions or at temperature below 3°C of the dew point.

Do not dispose into water drains.

Do not use in immersed conditions

Avoid skin contact

Apply only on to slabs that have a waterproofing system installed in order to prevent blistering due to osmosis.

Technical Support

Spraytek offers full technical support package to specifiers, contractors and end users, as well as technical assistance on site and after sales consultations.

Health & Safety

As with all chemical products, caution should always be exercised. Protective clothing, such as gloves and goggles, should be worn. See packaging/MSDS for specific instructions.

Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

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Spraytek Coatings LLC

P.O. Box 27356, Dubai, U.A.E., Tel.: +9714 2221432, Fax: +9714 2275750, Email: info@spraytek.ae

www.spraytek-me.com