DECKTOP 3000S

EXTERNAL ANTI-CARBONATION PROTECTIVE COATING FOR CONCRETE

DESCRIPTION

DECKTOP 3000S is a specially formulated, elastomeric, anti-carbonation, acrylic protective coating for concrete and masonry substrate. It is a single component system and pigmented in ready packed container for immediate usage. It offers high resistance to chlorides and other waterborne salts. **DECKTOP 3000S** provides a fully bonded homogeneous membrane barrier with no laps, joints or over-flashings. It is stable and not affected by UV or extremes temperature and will not crack with age. The **DECKTOP 3000S** acrylic membrane system complies with ASTM C 836 – 84 and UK Highway agency approvals.

USES

DECKTOP 3000S is ideally suitable for all structures. Since it is aliphatic acrylic based, it has anti-carbonation property and is suitable for use on external surface of bridges including structures subjected to aggressive marine and coastal environments. It provides resistance to weathering, dirty picking and contamination from CO2. It is also able to waterproof against wind driven rain by preventing moisture ingress.

ADVANTAGES

- Anti-carbonation property.
- Excellent crack bridging property.
- Smooth, semi-glossy surface facilitates cleaning.
- Obtainable to different colors.
- Environmental friendly and non-toxic.
- Enhance aesthetic appearance.
- Barrier to carbon dioxide, chloride ions, sulphates, oxygen and acid rains.
- Water vapor breathable.

SUBSTRATE PREPARATION

Exposed Concrete or screed without existing coating:

Surface must be dry, sound and free from dust and other deleterious materials. High pressure water jet or blast cleaning method is highly suitable.

New concrete must be at least 28 days old.

Old concrete that are damp and wet will require at least 24 hours of drying.

Renders and screeds should be cured for at least 7 days.

Old wet renders and screeds that are damp will require at least 24 hours of drying.

Exposed Concrete or screed with existing coating:

Existing coatings must be completely removed by suitable methods and the substrate must be suitably sound.

All areas with loose flaking paint must be removed to a firmly bonded substrate.

MIXING

Stir the coating to ensure uniformity using a slow speed (400 to 600 rpm) drill with mixing paddle to minimize colour variation.

TYPE: SURFACE COATING

ADVANTAGES: ANTI CARBONATION, NON TOXIC

COVERAGE (PER COAT): 0.3-0.5 kg/m²

COATINGS: 2 coats (min)

COMPONENT: 1 PART

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PHYSICAL AND CHEMICAL PROPERTIES

Colour	Standard CHEMIND colours chart. Custom colours are available upon request.
Composition	Silicone and Aliphatic acrylic polymers.
Viscosity	14000 cps at 25ºC
Density	1.35 kg/m^3 ± 0.05 at 25ºC
Solids Content	~65% by weight
Flash Point	45ºC
Temperature	Min 5ºC. Max 40ºC
Tensile Strength (ASTM D412)	0.4 N/mm^2
Elongation at break (ASTM D412)	> 90%
Carbon Dioxide Diffusion Coefficient, µCO2 (EN ISO 1062-6)	1.60 x 10^5
QUX Weather Test	> 2000 hours
Water Vapour Diffusion Coefficient µH2O (EN ISO 7783-1)	5190
Water Vapour Permeability (EN ISO 7783-1)	< 15 g/m^2/Day
Reduction in Chloride Ion Penetration	> 90 %
Adhesion Peel Strength (ASTM D903)	>5 N/mm mm (Concrete)
Crack Bridging (EN ISO 1062-72)	Class A3 (29 9ºC ºC for 2 coats of 0.3 kg/m^2)

APPLICATION

DECKTOP 3000S can be applied by brush, roller or airless spray onto the substrate.

Minimum 2 coats will be required.

The drying time for each coat is about 4 to 8 hours depending on humidity and temperature.

COVERAGE AREA

DECKTOP 3000S is applied at a rate of 0.35 – 0.50 kg/m^2 per coat. A minimum of 2-3 coats are required. For more intensive colours, 3-4 coats are required.

SAFETY

DECKTOP 3000S is inflammable.

It is advisable to wear goggles during spraying application.

Uncured material can be removed with a general purpose solvent.

PACKAGING

DECKTOP 3000S liquid membrane is available in 20 litre (25 kg) pails and 200 litre (250 kg) drums.

Legal Notes:
'Statements made in this bulletin are for the assistance of our customers. They are based on our experience and judgment but must not be regarded as amounting to a legal warranty or as involving any liability on our part. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of this product must test the product's suitability for the intended application and purpose. CHEMIND reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. Users may always refer to the most recent issue of our Product Data Sheet for the products concerned, copies of which will be supplied upon request.'

Made In Malaysia

SCOPE OF REGISTRATION AND STANDARDS

Manufacture of Waterproofing materials. Compliance with ASTM technical standards and AS 3740 - 2004 Australia Standard. SIRIM certification is available for selected products upon request, subject to applicable testing and certification requirements.

CHEMIND

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SIRIM

ASTM INTERNATIONAL Standards Worldwide

CHEMIND AUSTRALIAN TECHNOLOGY

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