Construction Products Limited

CA 1500

SEAMLESS ELASTIC "CONTROLLED ATMOSPHERE" COATING

ACRYLIC ELASTOMER LIQUID MEMBRANE

DESCRIPTION: Liquid applied, seamless mastic with an outstanding balance of ease of use, elastic recovery, driven rain resistance, and long term durability and developed principally as a high build acrylic membrane which in combination with chopped strand fibreglass matt forms the basis of a bandage system for CA stores. **CA 1500** is also an extremely effective semi-elastic high build wall coating in its own right and has found significant use for ensuring weather tightness against common hair-line cracking problems of solid plaster substrates for example but without the ultimate elastic "live-crack" bridging performance and cost of alternative **HIGHBUILD 300.** The all-acrylic resin nature of the product provides an unlimited choice of aesthetic finish, and unsurpassed ultraviolet and weather durability.

- ❑ Excellent tensile strength, true stretch and recovery for permanent crack bridging without wrinkling or rupture.
- ❑ Total and permanent resistance to wind driven rain.
- ❑ In-film biocidal protection to restrict degradative mould and fungus growth.
- ❑ Ideal for patch repairs of damaged refrigeration panels.
- ❑ Full recoatability for ease of maintenance and repair.
- ❑ Fundamentally high adhesion to all common building material surfaces.
- ❑ Barrier properties sufficient to prevent or halt concrete degradation due to carbon dioxide, chloride ion or "acid rain" ingress.
- ❑ True acrylic polymer technology with superior longevity and durability of key performance parameters.
- ❑ Waterborne for ease and safety of use and cleanup, and free from gross solvent hazard and pollution.
- ❑ Standard finish is an aesthetically pleasing satin gloss - colour choice is unlimited.
- ❑ Winter grade formulation available.

TYPICAL PROPERTIES:

Specific Gravity (Wet): 1.35

Packaging: 20 litre resealable plastic pail.

Shipping Weight: 28 Kgs.

Shelf Life (unopened pails): Minimum 12 Months.

Volume Solids: 50 %

Practical Spread Rate: 0.8m² Per Litre in combination with 225gm "E-Matt" bandage fibreglass reinforcement.

Application Temperature Range: 10º to 35ºC

Cure: 48 hours at 20ºC for a DFB of 7-800 micrometres.

Viscosity: (Brookfield 6/10/200 C) 30,000 Centipoise.

Safety: Non-Flammable. Alkaline-avoid eye and skin contact.

DRY FILM:

Recommended Dry Film Build: 7-800 micrometres.

Gloss & Colour: Low gloss. Colour choice unlimited.

Elongation: @20ºc = 100 % minimum (unreinforced).

Tensile Strength: 0.3 MPa.

Water Swelling: 24 hours 20 %

Water Pondage (7 days): No water transmission.

Water Vapour Permeability: Equivalent Air Layer Sd <0.5 metres (maximum 2 metres required).

Carbon Dioxide Diffusion: Equivalent Air Layer Sd >350 metres (minimum 50 metres required).

APPLICATION:

The properties of this product are such to allow simple, environmentally friendly and cost effective systems for weather and waterproofing of common refrigeration panels. **CA 1500** forms a permanent semi-elastic skin that combined with fibreglass reinforcement gives a tough and long wearing surface. Paying particular attention to the requirement that the panel must be clean, dry and free of any curing agents or release agents and appropriately primed, and then progressively coated to give a final high build laminate of **CA 1500** reinforced with fibreglass matt.

Priming: Steel – Lightly sand the surface then solvent wipe with Fosroc TCN Thinner Cleaner. Apply by brush or roller **RFU Solvent Primer.**
Concrete – Ensure the concrete has had a minimum of 28 days cure. Bag any "blow holes" with **Mesh Plaster** and allow to cure. Apply by brush or roller **RFU Solvent Primer.**
EPS – no priming required.

BASE APPLICATION: Once the **RFU Solvent Primer** has cured the membrane system base consists of 225gm weight fibreglass E-Matt bandage impregnated and bonded to the primed substrate with liquid **CA 1500.** Dilute **CA 1500** up to 10% with water and roll out evenly over the entire area where the first run of 225gm Ematt bandage is to land. Roll out the 225gm Ematt bandage over the surface so as to wet the matt into the wet layer of **CA 1500**. Apply a secondary wet layer of diluted **CA 1500** immediately after this ensuring full penetration within the Ematt. Allow to cure.
TOPCOATING: Lightly sand the entire area and vacuum. Apply **CA 1500** undiluted by roller in wet film builds no more than 400 micrometre thick. Once cured sufficient to touch continue applying additional coats to achieve a dry film thickness of 800um - This is generally achieved in 3 topcoats, and equates to a total **CA 1500** usage including basecoat of 1.6 litres per square metre of fibreglass matt.

Not for use in water retaining structures.
Full cure must take place before taking CA stores down to operating temperature.

IMPORTANT NOTE

This product as supplied by **Construction Products Limited** is warranted to conform to those physical properties listed in the Typical Properties section of this information sheet. Otherwise the information presented including that on suggested areas and methods of use is in good faith only and is specifically without recommendation or guarantee as to particular suitability. It is the responsibility of the purchaser to satisfy itself that the product is both fit for the purpose intended and that their use of the product can and does achieve that purpose in any particular instance or condition. Usage rates are presented as an initial guide only and do not account for wastage or substrate or build variations.

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