



TAMMSCOAT AC

High performance elastomeric, anti-carbonation protective coating for concrete and masonry and exposed conditions

EUCLID CHEMICAL

PACKAGING

Tammscoat AC - 20 L Drums

Eucoprime AC - 20 L Drums

Eucofine BH - 20 Kg bag

CLEAN UP

Clean tools and application equipment immediately after use with soap and hot water. Clean overspray or drips while still wet with soap and hot water. Dried material may require strong solvents or mechanical abrasion for removal.

SHELF LIFE

1 years in original, properly stored, unopened package

DESCRIPTION

Tammscoat AC is an elastomeric, water-based acrylic coating offering excellent elongation, recovery, and resistance to UV light, rain, and aggressive elements. It comes in various colors and works with a stabilizing primer, Eucoprime AC. This clear primer, containing acrylic resin and silane-siloxane, forms a hydrophobic barrier that prevents water penetration and consolidates porous substrates. The Tammscoat AC system includes a penetrating primer and a pigmented coating, both ready for on-site application.

PRODUCT CHARACTERISTICS

FEATURES/BENEFITS

- **Crack Resistance:** Can accommodate substrate cracks up to 2mm and endure cyclic movements up to 1mm.
- **High Performance:** Provides an effective barrier against carbon dioxide, water, sulfates, and chloride ions.
- **Exceptional Durability:** Retains elastomeric properties with high recovery, even after prolonged UV exposure.
- **Breathable:** Allows water vapor to escape from the structure.

PRIMARY APPLICATIONS

- Anti-carbonation coating for new and existing structures
- Concrete storage tanks - external surfaces
- Bridge structures
- Coastal environments
- Marine applications

COVERAGE

Tammscoat AC - 5.0 m²/litre

Eucoprime AC - 4.0 m²/litre

TAMMSCOAT AC coverage rates are approximate and are for estimating purposes only. Surface temperature, porosity, and texture will determine actual material requirements. Apply samples to all surfaces to be coated. Obtain approval of Architect or Owner for the color, finish, water repellency, and coverage before proceeding with work.

TECHNICAL INFORMATION

The following are typical values obtained under laboratory conditions. Expect reasonable variation under field conditions.

| S. No | TECHNICAL PROPERTIES | |
|-------|---|-----------------------|
| 1 | Solids by weight | 64% |
| 2 | Volume solids | 50% |
| 3 | Co ₂ diffusion resistance equivalent thickness of air (Taywood method) | 240 meters |
| 4 | Co ₂ diffusion resistance equivalent thickness of 30N conc. (Taywood method) | >500mm |
| 5 | Static crack spanning capability @ 200 microns dft @23°C (modified ASTM C836-76) | 2mm |
| 6 | Tear resistance (ASTM D1004-76) | 15 N/mm |
| 7 | Tensile strength ASTM D412-87 | 5.0 N/mm ² |
| 8 | Reduction in water absorption ASTM C642 | >82% |

| | | |
|----|---|-----------------------|
| 9 | Reduction in chloride ion penetration AASHTO T277 | >97% |
| 10 | Adhesion BS 1881 | 1.0 N/mm ² |
| 11 | VOC | 4.75 g/l |

DIRECTIONS FOR USE

Surface Preparation: All surfaces should be dry and free from contamination such as oil, grease, loose particles, decayed matter, moss, algal growth laitance, and all traces of mould release oils. This is best achieved by lightly grit-blasting the surface to the point where the fine aggregates are exposed but not polished. Where moss, algae or similar growths have occurred, treatment with proprietary biocide should be carried out after the grit-blasting process.

It is essential to provide an unbroken coating of Tammscoat AC. Thus, all blow holes and similar surface irregularities should be filled using Eucofine BH and should be allowed to cure properly before the application of Tammscoat AC. Consult the Stoncor Middle East Team for further details.

Priming: A primer coat is required to penetrate and 'stabilize' the substrate. The depth of penetration of the primer, and thus its coverage rate, are determined by substrate profile, porosity and general condition.

Hence for low permeability concretes, primer penetration will be low, and area covered per litre will be high - permeability may be affected by cement replacements (e.g. micro silica). It is thus recommended that a general coverage rate of 4m²/L be observed, noting that this may change according to substrate conditions.

The primer is best applied by using portable spray equipment. A uniform surface appearance (sheen) has been achieved. If any matt, porous patches remain, then a further application of Eucoprime AC should be made. If in any doubt regarding substrate priming, contact StonCor Middle East LLC.

Application: The correct application rates and Overcoating times should be observed, in order to obtain the complete benefits of the protective properties of the Tammscoat AC system, expect where substrate condition dictates different application rates for the primer.

Eucoprime AC

| | |
|---------------------------------------|---------------------|
| Number of coats | 1 |
| Theoretical application rate per coat | 4 m ² /L |
| Over coating time | |
| @25 °C | 2 hours |
| @35 °C | 1 hour |

Note: The primer should be allowed to dry for a minimum of 2 hours at 20°C (or 1 hour at 35°C) before application of Tammscoat AC. Under no circumstances should the primer be over coated until the surface

Tammscoat AC

| | |
|---|------------------------|
| Number of coats | 2 |
| Theoretical application rate per coat | 5m ² /L |
| Theoretical wet film thickness per coat | 200 microns |
| Over coating time | when firm to the touch |

Tammscoat AC should preferably be applied by airless spray equipment but can also be applied by roller. For further information about application techniques and equipment consult with Stoncor Middle East LLC. All primed substrates should be treated with two coats of Tammscoat AC. It is important that no gaps or 'raw edges' appear in the finished coating. Special care Should be taken to provide an unbroken coating at external corners and similar exposed protrusions.

The first coat should be applied to achieve a uniform coating with a wet film thickness not less than 200 microns. This coat should be allowed to dry until firm to the touch. Typically, this will be after approximately 12 hours in dry weather at 35 °C.

Prior to application of the second coat, a close visual inspection of the surface should be made to check for any pin holes or surface irregularities. Any such irregularities should be filled with Eucofine BH and allowed to dry before proceeding.

The second coat of Tammscoat AC should be applied at 90° to the first, to ensure a final full unbroken coating to the substrate. The second coat should once more be applied at a wet film thickness of not less than 200 microns.

PRECAUTIONS/ LIMITATION

Tammscoat AC should not be used in submerged or permanently wet conditions.

Tammscoat AC should not be applied in windy conditions where early- age dust adhesion may occur, or where rain is likely within

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