

## ECHO ANTI-CARBONATION PAINT

### • DESCRIPTION & FIELD OF APPLICATION

Echo Anti-Carbonation paint is specially formulated to confer long term protective and decorative properties to concrete and masonry surfaces. The micro-porous structure of the coating acts as a barrier to the ingress of chlorides and carbon dioxide and other acid gases, but allows the passage of water vapour from the substrate. The elastomeric nature of anti-carbonation paint ensures good crack bridging properties, in case of structural movement.

Echo Anti-Carbonation paint is recommended for use where new and existing concrete and masonry structures that require protection from water, carbon dioxide, sulphur dioxide, oxides of nitrogen, chlorides, sulphates and UV radiation. Examples: Basement car park walls and ceilings, commercial and industrial buildings, bridges, subways, high rise flats, and roofing.

### • MAIN FEATURES

- Easy to clean
- Excellent UV and heat resistance
- High performance anti-carbonation coating system to protect the Reinforced Concrete elements from CO<sup>2</sup> penetration
- Excellent resistance to moisture and salts
- Long lasting corrosion protection to reinforced steel in concrete
- Good scratch resistance and water repellency
- Excellent adhesion to the substrates
- Single pack and easy to apply
- Highly resistant to freeze/thaw cycling
- Elastic in nature with crack bridging properties
- Allows structures to 'breathe'
- Water based and non-toxic
- An eco-friendly resin product

### • PHYSICAL SPECIFICATIONS

- |                                  |  |
|----------------------------------|--|
| - Finish:                        | - Eggshell                             |
| - Application rate:              | - 4 - 5.5m <sup>2</sup> / liter / coat |
| - Volume by Solids:              | - 62%                                  |
| - Volume by Weight:              | - 76%                                  |
| - Wet film thickness             | - 125 microns per coat                 |
| - Equivalent dry film thickness: | - 78 microns per coat                  |

- Water vapour transmission rate: - 12g/m<sup>2</sup>/day
- Tensile strength: - 3.7 MPa @ 20°C
- Service temperatures: - 30°C to + 80°C
- Elongation at break: - 350% @ 20°C
- VOC : - Maximum of 30 g/L.
- Touch dry: - 1-3 hours (depends on ventilation)
- Hard dry: - 2-16 hours (depends on ventilation)
- Over coating interval: - 16 hours (minimum)

## • **SURFACE PREPARATION**

Substrates must be clean, sound, and free from contaminants such as oil, grease, moss, algae, dust, and any existing loose or flaking paintwork.

Concrete surfaces must be fully cured and free from laitance, mould, release oils, and curing compounds.

Mould or algae must be removed with a proprietary fungicidal wash.

High pressure water jetting may be deemed necessary for heavily contaminated surfaces. Blow holes or pitting on the surface must be filled using appropriate filler.

## • **PRIMING**

Priming is recommended on porous substrates. Dilute Echo anti-Carbonation paint with up to 20% by volume with clean water and apply by brush, roller or airless spray at a nominal rate of 6-8m<sup>2</sup>/liter and allow to dry.

## • **APPLICATION**

Apply Echo anti-Carbonation paint by brush, roller or airless spray at a nominal rate of 5m<sup>2</sup>/liter and allow to dry. A second coat may be subsequently applied at the same rate.

## • **COLORS**

- White, Multi-color range, as per color card

## • **PACKING**

- 19-liter Pail - 1 US gallon

- **STORAGE**

- The product must be kept in cool well-ventilated place, protected from sunlight and heat.
- Containers must be kept tightly closed after partial usage.
- Storage life: up to 5 years from date of production, if stored as suggested.

- **REMARKS**

- Stir well before use.
- Avoid application below 5° C or over 85% relative humidity.
- Ensure good ventilation during application and drying.
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- After contact with skin, wash immediately with plenty of soap and water or a recognized skin cleaner.
- After using, clean the application tools immediately with water.
- Keep out of children's reach.
- For more information, please do not hesitate to contact our Technical Department.