ShaliKote® AC WB
Water Based Protective-cum-Anti Carbonation Coating

Description

ShaliKote® AC WB is a high build elastomeric, micro porous coating, which facilitates long term protection and decoration of concrete and masonry surfaces. ShaliKote® AC WB gives an extremely tough coating, which allows substrate to breathe. ShaliKote® AC WB may give textured finish.

Characteristics

<table>
<thead>
<tr>
<th>pH</th>
<th>9 -11</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thinning Agent</td>
<td>Water</td>
</tr>
<tr>
<td>Density, grm / cc</td>
<td>1.35 approx</td>
</tr>
<tr>
<td>CO₂ resistant equivalent air layer thickness</td>
<td>123 m @ 160 μ</td>
</tr>
<tr>
<td>Water absorption according to DIN 52617</td>
<td>w &lt; 0.2 kg / m² hr</td>
</tr>
<tr>
<td>Water Vapour Permeability, 24 hrs</td>
<td>0.02 mg</td>
</tr>
<tr>
<td>Theoretical Coverage* m² / L / Coat / 70 micron</td>
<td>6 - 7</td>
</tr>
<tr>
<td>Resistant to weather</td>
<td>Very Good</td>
</tr>
<tr>
<td>CO₂ diffusion coefficient</td>
<td>6.4 x 10⁵</td>
</tr>
<tr>
<td>Surface structure</td>
<td>Smooth</td>
</tr>
<tr>
<td>Crack Bridging Ability, mm</td>
<td>2</td>
</tr>
<tr>
<td>Water Diffusion Rate, mg / 24 hrs</td>
<td>0.2</td>
</tr>
<tr>
<td>Water Diffusion Resistance Coefficient</td>
<td>2.5 x 10³</td>
</tr>
</tbody>
</table>

* Depending upon surface condition.

Application

- Bridge abutments / Subways.
- External concrete surface of storage tank and masonry surface.
- Multistoried building and villas.
- High external tough coating like on pipe protection enamel. Concrete cladding.

Advantages

- Water based, non-toxic, environment friendly green product.
- High build elastomeric, micro porous coating.
- Excellent resistance to carbon dioxide, air-borne / water-borne chloride.
- Excellent crack bridging properties and weathering resistance.
- Protective / decorative coating, which allows structure to breathe.

Application Methodology

- Surface Preparation
  - Remove dust, flakes, oil, grease or other loose foreign particles by sand blasting, iron brush or compressed air.
  - Remove oil and grease, chemical contaminants and extraneous matter.
  - Ensure that the substrate is sound, clean and free from dust and all loose or flaking material. Fill all holes and deep cracks with a suitable filler.
  - Ensure that no trace of mould or algae remains and that area is treated with a suitable anti-fungicide or bleach solution.
  - In case of new cementitious substrate, ensure that the substrate is fully cured for at least 14 days.

- Material Preparation
  - Stir drums thoroughly for uniformity. For best result, use a variable speed drill mixer with a spiral type blade at the bottom of stirrer rod. The speed may be 400-600 rpm
  - Dilute ShaliKote® AC WB by adding 10% clean water by volume and prime old, absorbent
and weathered surface alternatively, use ShaliPrime WB. Prime all metal substrates with ShaliPrime Zn Ph / ShaliPrime 2E / ShaliPrime AC.

➢ Application of Material

- Apply ShaliKote® AC WB evenly at temperatures between 3°C and 30°C with roller, brush or airless spray.
- Use two coat systems on dark, absorbent and heavily textured surfaces and when full carbonation protection is required.
- Primer with two coats of ShaliKote® AC WB will give DFT of 160 micron depending on surface condition.
- Porous, rough and irregular surfaces will reduce coverage rates.

Cleaning & Maintenance

Clean all tools immediately after use with water.

Health & Safety

- Avoid contact with skin / eyes and avoid swallowing.
- Ensure adequate ventilation and avoid inhalation of vapour.
- Wear suitable protective clothing, gloves and eye protection.
- In case of skin contact, rinse with plenty of clean water, then cleanse with soap and water.
  Do not use solvent to clean the contacted area.
- In case of eye contact, wash with plenty of clean water and seek medical advice.
- If swallowed, seek medical attention immediately. Do not induce vomiting.

Packing

Available in 20 L Bucket.

Storage

Store in a cool dry place at temperatures between 5°C and 30°C, under shade, away from heat.

Shelf Life

12 months in original unopened sealed condition.

Product Range

- Waterproofing and Insulation
- Road Surfacing
- Sealants and Additives
- Pipeline Coating
- Protective / Anti-Corrosive Coating
- Epoxy Flooring
- Grouts / Admixtures
- RestoFix - Repair / Rehabilitation
- Other Construction Chemicals

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