

ShaliKote® AC WB

Water Based Protective-cum-Anti Carbonation Coating



Description

ShaliKote® AC WB is a high build elastomeric, micro porous, Anti-Carbonation 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.

It conforms to **IRC: SP: 80 - 2008**.

Characteristics

Binders	Pure Acrylate	Water diffusion resistant equivalent air layer thickness, m	0.8
Solid, %	70 ± 3	Water Diffusion Resistance Coefficient	2.5 x 10 ³
Specific Gravity, gm / cc	1.40 ± 0.05	Water Diffusion Rate, mg / 24 hrs.	0.2
UV Resistance	Resistant	Water permeability of coating	w < 0.1 kg / m ² hr ^{0.5}
Adhesion with Concrete, N / mm ²	2.0 ± 0.3	Re-coating Time, Hr.	3 - 72
Dry Film Thickness, μ	200 - 225 (2 coats)	Tensile strength, N / mm ²	1.8 ± 0.3
Theoretical Coverage*, gm / m ²	400 - 450 (2 coats)	Elongation, %	220 ± 20
CO ₂ diffusion resistant equivalent air layer thickness, m	123	Salt Spray Test, Pass after hrs.	500
CO ₂ diffusion coefficient	6.4 x 10 ⁵	Crack Bridging Ability, mm	2
Water Vapour Permeability, 24 hrs.	0.02 mg	Thinning Agent	Water

* Depending upon surface condition.

Application

- Bridge Abutments / Subways.
- External concrete surface of storage tank and masonry surface.
- Multistoried building and villas.
- High external tough UV resistant 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 all loose gravel, dirt, oil, grease and foreign matter by jet of dry air and clean the surface mechanically or by grinding to make it smooth before application.
- Repair all cracks by cutting "V" groove and fill with PMC mortar prepared in the ratio of **ShaliCrete** : Cement : Sand (1 : 2 : 5).
- Provide 75 mm x 75 mm coving made out of PMC mortar as above, using **ShaliSBR Latex** as bond coat.

- Ensure gradient of 1:100 towards drain by laying PCC admixed with integral waterproofing compound, **ShaliPlast IW** @ 200 ml / bag of cement preferably with galvanized chicken wire mesh.
- Ensure that there is no standing water on the applicable surface.

➤ **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.

➤ **Application of Material**

- Slightly damp the surface. Avoid standing water / ponding.
- Prime the surface using **ShaliPrime AC WB** @ 100 gm / m².
- 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.

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 25 kg 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.



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