

ShaliKote® AC

High Performance Acrylic Anti Carbonation Protective Coating



STP Limited

Description

ShaliKote® AC (Formerly known as Architectural Seal) is an acrylate based non-yellowing anti-carbonation protective coating for concrete and masonry surface. It is available in selective colours and will not show yellowing tendency on exposure to sunlight when applied to the concrete. It forms an inert, impervious film that is resistant to alkali from fresh concrete as well as acid, salt and many construction stains. It is ideally suitable for exterior application to protect the structure from Carbonation, chloride ions, Salts, Weathering and Industrial corrosive climate.

The complete system consists of ShaliPrime AC as a primer and **ShaliKote® AC** as a Top coat. ShaliPrime AC is Silane Siloxane (solvent) based penetrative & reactive sealer, which chemically reacts with the substrate & forms an effective barrier to the dissolved ions, salts, etc. in the water. The total system offers a long-lasting anti-carbonation and corrosion protection for concrete structures.

Characteristics

Physical Appearance	Coloured Low viscous liquid	Specific Gravity	1.00 - 1.05
DFT, microns including primer coat	150 - 175	Theoretical Coverage, * m ² / L (2 coat needed)	5
Application Temperature, °C	5 - 40	Recoat time @ 25°C, hrs.	4 - 5
Bond strength to concrete, MPa (ASTM D 4541)	> 1.5	CO ₂ diffusion resistance at 80 microns DFT	Equivalent Air layer thickness: > 70 mtr. Equivalent concrete thickness: 177 mm
		ShaliKote® AC	Control Concrete
Permeability (As per BS: 1881) (ml / m ² / sec)			
• 2 hrs.		Nil	Nil
• 6 hrs.		Nil	9.7
• 24 hrs.		Nil	31.4
• 48 hrs.		9.3	54.7
Water Absorption (%) (ASTM C - 67) After 24 hrs.		Nil	1.31
Depth of Carbonation in mm			
• 2 hrs.		Nil	1.0
• 4 hrs.		Nil	2.8
• 6 hrs.		Nil	5.3
• 12 hrs.		Nil	6.4
• 24 hrs.		Nil	9.3

* Depending upon surface condition.

Application

- Old & new Concrete structures.
- Unglazed bricks and clay tiles.
- Terrazzo floors and walls.
- Exterior masonry surface.
- Bridges, Dams, Flyovers, Elevated MRTS and Marine Structures.
- Chimneys, cooling towers, Silos, Industrial buildings & power house.

Advantages

- Excellent barrier to carbon dioxide, chloride ions, sulphates, oxygen and water.
- Selected range of decorative colours.
- Easy for application. Single pack.
- Highly durable in all climate conditions.
- Seals out dirt and other staining materials.
- Excellent resistance to UV rays.
- Permeable to water vapour - Breathable.

Application Methodology

➤ Surface Preparation

- Surface should be dry, structurally sound, free from grease, oil, dirt and other contaminations.
- Remove any curing compound or releasing agents prior to coating.
- Use compressed air or grit blasting to remove dust and other loose particles.
- Any blow holes, honey combs on the surface should be repaired & made even.
- Ensure that the surface is dry prior to application.

➤ Material Preparation

- **ShaliKote® AC** is a single pack system. Mix well before application, to ensure that there is no sedimentation.

➤ Application of Material

- Prime the surface with ShaliPrime Acrylate @ 4 - 5 m² / L.
- Allow it to dry for at least 5 hrs.
- Apply **ShaliKote® AC** on the primed surface as per the coverage
- Allow it to dry for 4 - 5 hrs. before re-coating of the second coat.
- Low pressure, airless sprayer is the preferred method of application. But a brush or roller may also be used for coating. Material should be applied to assure uniform coverage.

Cleaning & Maintenance

Clean tools and equipment with Xylene or Toluene before the material hardens

Health & Safety

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

Packaging

Available in 20 L pack.

Storage

Keep in cool and dry place, under shed, away from heat.

Shelf Life

12 months in original unopened sealed condition.



STP Limited
Enhancing Structures' Life

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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