

ShaliCryl® 215

UV Resistant Elastomeric Anti-Carbonation Exterior Acrylic WP Coating



STP Limited

Description

ShaliCryl® 215 is single component, UV resistant, unique elastomeric, anti-carbonation, high build exterior waterproofing coating based on a revolutionary acrylic polymer with quick-set capabilities to resist moisture attack. Besides inherent waterproofing properties, it possesses durable, flexible, water-resistant and water-repellant properties.

Approval / Standards

Conforms to ASTM D - 6083

Product Information

Form, Colour	Viscous liquid, any colour shade.
Handling & Storage	Store under cover out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air conditioned environment. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.
Packaging	Available in 5L and 20 L container.
Shelf Life	12 Months from the date of manufacture when maintain in protected storage in original unopened sealed condition at 5 - 40°C.
Handling Precautions	As with all chemical products, care should be taken during use and storage to avoid contact with eyes mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. Keep away from children and animals. After opening the seal, always consume total material.

Characteristics - Physical

Application Temperature, °C	5 - 40	Density, gm / cc	1.30 ± 0.02
Solid, % by weight	57 - 60	Viscosity, cps @ 30°C	20000 ± 2000
Recommended DFT, microns	150	Theoretical Coverage, m ² / L*	3.25 - 3.50
Accelerated Weathering Test. Q Panel, ASTM G 23 Type D, 1000 hours	No defects	Dust pick up resistance	Good
		Rapid Chloride Permeability (ASTM C 1202 - 97)	Very low

* Depending upon surface condition, porosity and wastage during application.

Technical Characteristics @ 27°C, 55 % RH

Property	Standard	Results
Elongation, 14 days, %	ASTM D - 6083	300
Tensile strength, 14 days, MPa	ASTM D - 6083	0.72
Shore A Hardness, 14 days	ASTM D - 2240	70 - 72
Adhesion Strength, MPa, Concrete failure	ASTM D - 4541	1.5
SRI Value (White Colour)	EN - 673; EN - 410	105
CO ₂ diffusion resistance @ 80 microns DFT		
• Equivalent Air Layer Thickness, m	--	> 70
• Equivalent Concrete Thickness, mm		177

Field of Application

- Exterior waterproofing UV resistant elastomeric coating with 150 - 160 μ impermeable film.
- For UV protection layer over Liquid Membrane, **ShaliCryl® 215** is recommended.

Advantages

- Green Product / User friendly / easy to apply.
- Elastomeric UV Resistant Coating.
- 200 microns impermeable Coating.
- Crack Bridging Property upto 1 mm.
- Higher Durability.
- Dust / Algae / Fungal Resistant.

Application Methodology

➤ Surface Preparation

- Remove all loose and foreign materials, if any, by a wash with a jet of air / water.
- Repair structural defects before application of **ShaliCryl® 215**.
- Fill voids and undulation area with Polymer Mortar made out of **ShaliSBR Latex**, Water, Cement and Sand in the Ratio of 1:1:5:12.5.
- Fill cracks up to 3 mm with **PlastiSeal** and cracks over 3 mm with **PlastiSeal P** after opening the crack to a "V" cut.
- In case of any poor plaster surface in existence (for old building), remove the same and corrected with new cement: sand in the ratio of 1: 4 admixed with **ShaliPlast® IW @ 200 ml / bag of cement**.
- Allow it to cure for at least 10 days.

➤ Primer Application

- For fresh painting,
 - Prime the prepared surface with **ShaliPrime® WB @ 8 - 10 m² / L** (theoretical coverage).
 - Allow it to dry.

➤ Material Preparation

- Stir **ShaliCryl® 215** by a slow speed mixture fitted with a suitable mixing paddle.
- Add stainer slowly to get the desired shade.
- After stirring, wait for the product to settle in order to let entrapped air escape.

➤ Application of Material

- Apply first coat of **ShaliCryl® 215** over the prepared / primed surface @ 155 ml / m².
- Allow it to dry for 6 - 8 hrs.
- Apply second coat of **ShaliCryl® 215** without dilution over dried first coat @ 155 ml / m² and allow it to dry.
- Do not undertake any further work over the coated area within 72 hrs. of final coat.
- Optionally, apply a coat of **ShaliCryl TC 100 E @ 200 ml / m²** to get final DFT of 200 - 210 μ to have higher service life of the coating.
- For high water repellency, apply **ShaliCryl® TC 100 ES @ 120 ml / m²** over the base coat of **ShaliCryl® 215**.

Value base of product data

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control and different test methods.

Health and Safety information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent **Material Safety Data Sheet**.

- 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.

Cleaning & Maintenance

- Clean all tools immediately after use with STP Thinner only. Do not allow the material to harden. Hardened materials should be removed mechanically.



STP Limited
Enhancing Structures' Life

Product Range

- Waterproofing & Insulation
- Road Surfacing
- Sealants & Adhesives
- Pipeline Coatings
- Protective/Anti-Corrosion Coatings
- Epoxy and Flooring
- Grouts and Admixtures (GARA)
- RestoFix - Repair/Rehabilitation
- Other Construction Chemicals



Advisory Cell: +91 81302 81114

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