

ROOFCRYL

Acrylic Protective Coating

DESCRIPTION

Roofcrl is a single component water based 100% acrylic smooth waterproof coating.

ADVANTAGES

- 100% acrylic to protect and waterproof commercial and residential buildings
- Breathable to allow water vapor to escape
- Excellent adhesion, bonds securely to concrete and metal substrate for long-term durability
- Low VOC content for broad compliance across all regions
- Water repellent.
- Highly UV resistance.
- Highly resistance to chlorine ions and CO2 gas.
- Easy to apply and dries quickly.
- Penetration into concrete is very well.
- Highly resistance to chemicals.
- Excellently adhered on concrete and metal.
- Requires no lining.



APPLICATION

- Once the mixing is ready apply a two-coat system, achieving a total dry-film thickness (DFT) (0.3-0.4 mm).
- Apply Roofcrl by brush, spray, roller, or spray-and-backroll.

Roller

- Use a quality ¾ - 1 ¼ nap roller cover.
- Completely saturate the roller and keep it loaded with the coating to build the required miles. Never dry roll.
- Cross roll, maintaining a wet edge, to achieve uniform thickness. Backroll in one direction for consistent appearance.

Brush

- Application by brush is recommended only for small inaccessible areas, (e.g., on touch-ups.)
- Use only a nylon brush.

Technical Data

PROPERTIES	RESULTS	TEST METHOD
Density, lbs/gal (kg/L)	11.3–12.3 (1.35–1.47)	ASTM D 1475
Viscosity	40% 102-103	ASTM D 562
Solids, % By weight By volume	60 40	ASTM D 5201
Gloss	3.0	ASTM D 523
Light reflectance, %	> 91	ASTM E 1347
Resistance to wind-driven rain	Meets requirement – no water penetration	TT-C-555B
Flexibility 1" mandrel	No cracking	ASTM D 522
Impact resistance, in-lbs Direct Reverse	82 78	ASTM D 2794
Fungus resistance	No growth; meets requirement	ASTM D 3273
Adhesion on concrete Adhesion on steel	6.5 N/mm ² 6.3 N/mm ²	-
CO ₂ Diffusion Strength	High	-
Chloride ion coefficient	NO chloride ion diffusion was observed. After 130 days of plunging	-
Freezing / Thawing	No effect was observed	-
Dry Time at 20° C	25 minutes	-

SURFACE PREPARATION

- Surfaces should be clean and sound and free of all bond-inhibiting contaminants.
- Concrete substrates should be fully cured.
- Repair any holes, spalled and damaged concrete with appropriate repair materials. Allow appropriate cure time prior to coating.
- Remove any protruding concrete accessories and smooth out any surface irregularities.

The information given in this data sheets is the average of test of various samples conducted under lab conditions. *In accordance to ASTM and UEA/Ce Standards results are subjected to 5 to 20% tolerance.

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DRYING TIME

Times assume (21 ° C) and 50% relative humidity.

- To touch: 1-2 hours
- To recoat: minimum of 6 hours

Lower surface or air temperatures and higher relative humidity will extend the drying time.

PRE-CAUTION

- Do not apply when substrate or ambient temperature is (4° C) or below or is expected to fall below (4° C) within 24 hours after application.
- Do not apply if rain is expected within 24 hours of application.

MIXING

Prior to use, mix Roofcryl at slow speed with drill and mixing paddle to ensure uniform color and to minimize air entrapment.

TOOL CLEANING

Clean all tools immediately with clean water.



HEALTH, SAFETY AND ENVIRONMENT

All safety measures should be observed during application. Fire extinguishers should be available on site. Care should be taken with gas, and torches should not be rested on finished surface or on any materials that can be scratched by flame or hot torch. Gloves and goggles should be worn by all workers during application.

Read, understand and follow all Material Safety Data Sheets and product label information for this product prior to use.

TECHNICAL SUPPORT

International Insulation Company (IIC) - Bitugulf technical support team consist of expert engineers offers a comprehensive service support to specifiers, end users and contractors, and on-site technical assistance.

PACKAGING

18-kg. per pail, white color.

STORAGE

- Keep the products packed in a dry place.
- Keep away from direct sunlight.
- Do not place the pallets on top of each other.
- Rolls must always be kept in a vertical position.

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Note: The technical data provided reflects typical properties based on laboratory tests and practical experience, subject to UEAtc tolerance levels. While we cannot guarantee performance under all conditions, further details are available upon request, with a standard variation of up to 20%.



NATIONAL ROOFING
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