EVI VERNICI
PAINTS & COATING SOLUTIONS

CONSTRUCTION CHEMICALS DIVISION

ELASTOCRYL 900

Acrylic Cementitious Waterproofing Coating

Technical Data Sheet

Composition and Application Field

ELASTOCRYL 900 is a two component liquid-applied, cementitious acrylic waterproof elastomeric material with outstanding adhesion to various substrates. **ELASTOCRYL 900** is a blend of ordinary portland cement, graded silica sand and additives (part A, powder) belong with one container high performance acrylic emulsion (part B, liquid). **ELASTOCRYL 900** complies with ASTM C957-1998.

Uses

ELASTOCRYL 900 waterproof coating for interior and exterior concrete and masonry. It covers existing hairline cracks and bridges hairline cracking caused by structure movement.
ELASTOCRYL 900 is a waterproof concrete and masonry building for exteriors. It is recommended for exterior facades, walls, floors, swimming pools, internal lining of water tanks, and flat and corrugated roofs.
ELASTOCRYL 900 is ideal for waterproofing concrete roof, wood, glass, asbestos, tiles, metal surface and masonry building exteriors.
ELASTOCRYL 900 acts as an effective waterproofing membrane in concrete water storage tanks, retaining walls, swimming pools, kitchens and bathrooms.

Advantages

- Low cost. Moves with crack bridge > 2mm.
- High bonding with cement-based surfaces.
- Non-toxic and suitable for potable water tank.
- Fiber re-enforcement will provide hard and tough flexible membrane. Available in white and grey.
- Hard wearing-durable. High abrasion resistance.
- Good resistance to gases and moisture. Applicable to apply on floors and walls.
- Captures water from the structure.

Surface Preparation

All surfaces should be clean, dry and free from dust and other contaminants. A dry sponge should be used to remove water on wet surfaces. Treat oil or grease contamination with degreaser followed by water or steam cleaning.

New and unpainted surfaces must be structurally sound, clean, dry, fully cured, and free from dust, curing agents, form release agents, efflorescence, scale, or other foreign materials.

All cracks larger than hairline shall must be repaired with **RENDACOAT FC** cementitious concrete repair. Remove all unsound concrete. Patches shall be flush with the surrounding surface and shall match the texture of existing surfaces. Angle filet and corners should be arranged by using **RENDAGROUT HB** and kept to fully cure before applying **ELASTOCRYL 900**.

Mixing

ELASTOCRYL 900 liquid should be poured into plastic pails. Add two liters sweet water then mix with slow speed drill. Add the powder gradually to the liquid and mix for 3 minutes until a homogenous slary liquid forms.

Application Method

ELASTOCRYL 900 may be applied by roller or airless sprayer. A brush may also be used for touch-up and edging work or for areas unsuitable for spray application. Airless spraying and rolling are the most effective methods for obtaining a uniform film build.

Always apply in two coats in order to avoid pinholes. Allow 6 - 8 hours drying time in- between coats. Due to its consistency nature, it is possible to build an appreciable thickness without sagging by using a trowel.

Best results are obtained by flush clean water to concrete wall as a primer coat. The second coat shall be applied in a direction perpendicular to the first coat after it dries and preferably in a different color to get high toughness in order to imbed the tensile fiber glass in between.

Areas with permanent contact with water (e.g, water reservoir) shall be dry for at least 7 days after application before filled with water.

Coverage

Actual coverage may vary depending on surface profile, porosity and method of application. **ELASTOCRYL 900** is applied at a rate of 14 – 16 m^2/pack at 1.0 mm WFT thickness.

Cleaning

Tools and equipment can be cleaned immediately by using sweet water.

Package

18 kg powder bag (Part A) and 1.0 US gallon liquid (Part B).

Technical Properties

Property	Value	Test Method
Specific Gravity	1.01 ± 0.05	S.G. Cup
Pot life @ 35°C	25 mins.	-
Tensile Strength	>3.0 N/mm^2	ASTM C 307
Elongation at Break	50 ± 5%	ASTM C 836
Water Vapor Transmission	7.5 perms.	ASTM E96
Hardness, Shore A	70	ASTM D 224C
Bonding Strenght	>2.0	ASTM D4541
UV Resistance after 1000 hours	Excellent	ASTM D 822
Resistance to Bacteria	No Attack	ASTM D 4299
Resistance to Algae	No Attack	ASTM G 29-75
Resistance to Chemicals	Limetted effect	Visual Check
Resistance to Flame	Non-Flammable	Visual Check

Storage and Shelf Life

Product should be stored at 25°C in dry conditions.
18 months in tightly closed container.

Health and Safety

Avoid contact with the skin and eyes. Wear suitable protective clothing such as overalls, goggles, dust mask and gloves. Use a barrier cream. Ensure that there is adequate ventilation in the area where the product is being applied. Do not breathe vapour or spray. MSDS is available on request for the safe handling of this product.

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