



ELASTOCRYL 700

High Performance Acrylic Waterproofing Membrane

Technical Data Sheet

Composition and Application Field

ELASTOCRYL 700 is a high solid content thixotropic liquid-applied, water based acrylic waterproof elastomeric with outstanding adhesion to various substrates. **ELASTOCRYL 700** is a permanently flexible membrane that can be re-enforced with fiber glass mesh for high tensile strength and toughness. **ELASTOCRYL 700** complies with ASTM C957-1998.

Uses

ELASTOCRYL 700 is intended to be used in areas where water dampening of surfaces is critical. It has the ability to uniformly cover the profile of textured substrates, forming a continuous membrane.

ELASTOCRYL 700 effectively covers existing hairline cracks, repaired areas and bridges hairline cracking caused by structure movement.

ELASTOCRYL 700 is ideal for waterproofing concrete roof, balconies, wood, glass,

asbestos, tiles, metal surface and masonry building exteriors. Fiber reinforcement will provide hard and tough flexible membrane.

ELASTOCRYL 700 also performs as an effective waterproofing membrane in concrete water storage tanks, retaining walls, swimming pools, kitchens and bathrooms.

Advantages

- One component liquid applied. Moves with crack bridge > 3mm.
- Adheres tenaciously to cement-based surfaces.
- Non-toxic and safety to contact with drinking water.
- Available in wide range of colors.
- Hard wearing-durable. High abrasion resistance. Primerless.
- Excellent UV resistance. Applicable to apply on floor and walls.

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 file and corners should be arranged by using **RENDAGROUT HB** and kept to fully cure before applying **ELASTOCRYL 700**.

Mixing

ELASTOCRYL 700 is a single component. Remix and apply direct into the substrate.

Application Method

ELASTOCRYL 700 should 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.

ELASTOCRYL 700 is a single component material. It is necessary to thoroughly mix the container prior to application using a slow speed mixer.

ELASTOCRYL 700 has a rich thixotropic consistency. The addition of water reduces this thixotropic nature and decreases the ability to

achieve heavy film builds with good vertical hold. Always apply two coats in order to avoid pinholes. Allow 5 - 6 hours drying time in-between coats. The coating is thixotropic rather than viscous and therefore breaks up easily in spray pattern. Due to its thixotropic nature, it is possible to build an appreciable thickness without sagging.

Best results are obtained by first applying a primer coat of a thin film of diluted **ELASTOCRYL 700** with equal size of water and two coats un-thinned. The second coat shall be applied in a direction perpendicular to the first coat after drying and preferably in a different color.

Surfaces subject to continuous splashes or permanent contact with water shall be left to dry for at least 7 days before they are filled with water.

Coverage

Actual coverage may vary depending on the surface profile, porosity, method of application and job conditions. **ELASTOCRYL 700** is applied at a rate of 14-16 m²/gallon at a thickness of 250 microns WFT per coat.

Cleaning

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

Package

1, 5 USG.

Technical Properties

Property	Value	Test Method
Specific Gravity	1.2 ± 0.05	S.G. Cup
Solid Content	65 ± 1%	ASTM D 1353
Tensile Strength	>3.0 N/mm ²	ASTM D 412
Elongation at Break	500 ± 25%	ASTM D 412
Permeability	Nil	BS EN 12390
Hardness, Shore A	50	ASTM D 224C
180° Peel Adhesion	8 kg/2.5 cm	Metal Plate
UV Resistance after 1000 hours	Pass	ASTM D 822
Resistance to Bacteria	No Attack	ASTM D 4299
Resistance to Algae	No Attack	ASTM G 29-75
Resistance to Chemicals	Limitted 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.