

Acrylic Waterproofing Membrane

DESCRIPTION • *ProofCrete 704* is a liquid, cold-applied, acrylic waterproofing elastomer with outstanding adhesion to various substrates. *ProofCrete 704* is a permanently flexible membrane that can be re-enforced with a fiberglass mesh for high tensile strength, tear resistance and toughness.

USES • *ProofCrete 704* is intended to be used in areas where water leakage or dampening of surfaces is critical. It has the ability to uniformly cover the profile of textured substrates, forming a continuous membrane.

ProofCrete 704 effectively covers existing hairline cracks and repaired areas, and bridges hairline cracking caused by structure movement.

ProofCrete 704 is ideal for waterproofing concrete and masonry building exteriors. *ProofCrete 704* also performs as an effective waterproofing membrane in concrete water storage tanks, retaining walls, swimming pools, kitchens, bathrooms and on roofs.

ADVANTAGES •

- ✓ A ready-to-use material with no pot-life problems and requiring no catalization.
- ✓ A water-based elastomeric emulsion.
- ✓ Moves with the structure to bridge hairline cracks that may develop.
- ✓ Adheres tenaciously to cement-based surfaces.
- ✓ Its thixotropic consistency gives it excellent vertical hold, allowing full application in one or two coats.
- ✓ Non-toxic and approved to be in permanent contact with drinking water and food.
- ✓ Contains additive for anti fungus, algae, and bacteria growth.
- ✓ Fiber re-enforcement will provide hard and tough though flexible membrane.
- ✓ Available in gray and white.

LIMITATIONS • New concrete surfaces must be allowed to cure for a minimum of 28 days. Intended only as a coating - do not use to fill cracks or holes in the surface.

Do not apply when the ambient temperature is below 7°C. Do not apply when the relative humidity is in excess of 95%. Do not apply if weather conditions will not permit complete cure before rain or freezing temperatures occur.

COVERAGE • The theoretical thickness for coverage is based on smooth, non-porous surfaces. Actual coverage may vary depending on surface profile, porosity, method of application and job conditions. *ProofCrete 704* is applied at the rate of 9 sq meters per gallon and will theoretically yield a

thickness of 8 dry mils (203 microns). Best results are obtained at a membrane thickness of 13 dry mils in minimum two coats and coverage of 5.7 sq meters per gallon.

PHYSICAL PROPERTIES •

Property	Value	Test Method
Specific Gravity	1.10 ± 0.05	S.G. Cup
Solid Content	65%	ASTM D 1353
Tensile Strength	2.0 N/mm ²	ASTM D 412
Elongation at Break	>300%	ASTM D 412
Permeability	Nil	DIN 1048
Hardness, Shore A	50	ASTM D 224c
180° Peel Adhesion	8 kg/2.5 cm	Metal Plate
Resistance to Bacteria	No Attack	ASTM D 4299-83
Resistance to Algae	No Attack	ASTM G 29-75
Resistance to Chemicals	Unaffected	Visual Check
Resistance to Flame	Non-Flammable	Visual Check

SURFACE PREPARATION • **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 be considered as moving and must be repaired with *PatchCrete 102 Crack Filler*. All delaminated and splashed areas of concrete shall be repaired prior to application of *ProofCrete 704* with *PatchCrete 101 Multi-Use Repair Mortar*. Remove all unsound concrete. Patches shall be flush with the surrounding surface and shall match the texture of existing surfaces.

Previously painted surfaces shall be sandblasted or water blasted to remove all paint and bring it to bare a sound surface.

APPLICATION • *ProofCrete 704* may be applied by roller or conventional or airless sprayer. A brush may also be used for touch-up and edging work or for areas unsuitable for spray application. Airless spray and rolling are the most effective methods for obtaining a uniform film build.

ProofCrete 704 is a single component material and may settle into a two-stage suspension when standing for a long time. It is necessary to

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thoroughly mix the container prior to application using a slow speed mixer.

ProofCrete 704 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. All surfaces should be sprayed with multi-direction spray passes or rolled cross-direction each coat to assure positive continuous film coverage.

Always apply in two coats in order to avoid pinholes. Allow 3-5 hours drying time in-between coats. Airless spray equipment or conventional heavy-duty spray equipment works well. 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 *ProofCrete 704* 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 it has dried and preferably in a different color.

Surfaces subject to continuous splashes or permanent contact with water storage tanks shall be left to dry for at least 4 days before they are filled with water.

CLEANING • Tools and equipment may be cleaned with warm water.

STORAGE & SHELF LIFE • Product should be stored at 25°C in dry conditions away from direct sun light. Shelf life is approximately 12 months from date of purchase in original unopened container at specified storage temperature.

SAFETY PRECAUTIONS • KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY. Use goggles, protective clothing and vinyl gloves when handling. FIRST AID: Eyes – Do not rub eyes, immediately flush with fresh water. Skin – Wash with soap and water. Ingestion – Seek immediate medical attention.

PACKAGING • 1 & 5 Gallon pails.

Creative Concrete Concepts

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