

**DESCRIPTION** • *ProofCrete 710* is a superior cement-based dampproofing/waterproofing system for concrete and masonry surface.

*ProofCrete 710* is a permanently flexible “breathing” membrane, allowing moisture vapor from the substrate or building interior to escape through the membrane while remaining impervious to water penetration from the exterior.

*ProofCrete 710* is a single component factory blended mix of cement, fillers, acrylic admixtures, plasticizers and other chemicals.

**USES** • *ProofCrete 710* was specifically developed to waterproof concrete and masonry building exteriors. It is recommended for exterior facades, walls, floors, and flat and corrugated roofs.

#### ADVANTAGES •

- ✓ Ready to use, just add water.
- ✓ Excellent waterproofing and damp-proofing of substrate.
- ✓ Easy to mix and apply by brush.
- ✓ Non-toxic for potable water reservoirs or foodstuffs.
- ✓ Prevents cracks from telegraphing.
- ✓ Does not promote fungus growth.
- ✓ Tough with high impact resistance.
- ✓ Forms a membrane that is water and chemical resistant.
- ✓ Creates a flexible membrane that bridges any structural movement or drying shrinkage cracks.
- ✓ Low VOC.

**LIMITATIONS** • Never apply to new concrete surfaces before they have been 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.

#### PHYSICAL PROPERTIES •

Compressive Strength (ASTM C109-80)	30 MPa – 7 days
Tensile strength (ASTM C190-77)	1.7 MPa – 7 days
Flexural Strength (ASTM C348-80)	2.5 MPa – 7 days
Water Absorption (ASTM C67)	3.6%, 24 hours
Sand Abrasion (ASTM D968)	3,000 L. Passed
Water Vapor Transmission (ASTM E96)	7.8 perms.

Permeability [on Concrete] (Positive Hydrostatic)	No Signs of Discoloration
VOC Content	0 g/L

**COVERAGE** • The theoretical thickness for coverage is based on smooth, non-porous surfaces. *ProofCrete 710* is applied at the rate of 1.5 kg per sq meters at a 1 mm thickness (or 16.5 sq meters per 25 kg bag at 1 mm thickness).

**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, and 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 710* 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.

**MIXING** • *ProofCrete 710* is supplied in paper bags with the binder included in powder form ready to use after mixing with water. In a clean container add 25 kg of *ProofCrete 710* to approximately 1.5 gallons of potable water while mixing. Use a ¾" drill with a mixing paddle at low speed (approximately 300 RPM). Mix components for 3-5 minutes, allow to slake for 3-5 minutes, then remix prior to applying. Do not over mix as this could entrap air. Pot life is approximately 30-90 minutes.

**APPLICATION** • *ProofCrete 710* may be applied by brush or hopper spray gun. It is essential that the first coat be thoroughly worked into the substrate to completely fill and cover all voids, holes, and nonmoving cracks.

Always apply in two coats in order to avoid pinholes. Subsequent coats must be applied in a direction perpendicular to the previous one in order to insure thorough coverage of the surface. Allow 24 hours drying time between coats. The second coat shall be applied in a direction perpendicular to the first coat after it has dried.

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.

## **ProofCrete 710 1K Cementitious Waterproofing Coating**

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**CLEANING** • Tools and equipment may be cleaned with fresh water.

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**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.

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**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.

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**PACKAGING** • 25 kg paper bag.

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### **Creative Concrete Concepts**

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