

DESCRIPTION • *ProofCrete 709* is a superior cement-based waterproofing system for concrete and masonry surface. It is a two component system, liquid modified acrylic dispersion (Part B) and special blend (Part A) of cement, fillers and other active chemicals.

ProofCrete 709 is a permanently flexible membrane that allows moisture vapor from the substrate or building interior to escape through the membrane while remaining impervious to water penetration from the exterior.

USES • *ProofCrete 709* was specifically developed to waterproof concrete and masonry building exteriors and interiors. It is recommended for exterior facades, walls, floors, swimming pools, internal lining of water tanks, wet areas such as kitchens and bathrooms, and flat and corrugated roofs. *ProofCrete 709* has been tested for toxicity and deemed suitable for potable water tanks intended for human consumption.

ADVANTAGES •

- ✓ 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 13°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 •

Tensile Strength (ASTM D412-02)	3.2 N/mm ²
Compressive Strength (ASTM C 109)	8.2 N/mm ²
Flexural Strength (ASTM C 348)	7.1 N/mm ²
Adhesion Strength (ASTM D4541)	2.1 N/mm ²

Mix Density	1.7 ± 0.1 kg/L
Elongation (ASTM D412)	62%
Water Penetration (ASTM D570-95, 24 hour immersion)	Nil
Water Vapor Transmission (ASTM E96)	7.8 perms.
Permeability [on Concrete] (Positive Hydrostatic) DIN 1048	No Signs of Discoloration
Toxicity (BS 6920 Part 2)	
Odor	None discernable
Color Change (max. 1%)	<1%
Flavor	None discernable
Turbidity (max. 5)	<1
Dissolved O ₂	Pass
Heavy Metals	Pass
Chemical Analysis	Pass
Volatile Organic Compounds (EPA 24)	nil

COVERAGE • Actual coverage will depend on surface porosity and level, application method, and job conditions. A coverage rate of 15-17 sq meters/kit at 1 mm WFT is dominant.

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 709* 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 709* is supplied in proportioned units ready for mixing. In a clean container add 20 kg of *ProofCrete 709* (Part A) to approximately 5 liters of *ProofCrete 709* (Part B). If necessary, *ProofCrete 709* (Part B) may be diluted with a small quantity of water to aid mixing. Use a ¾" drill with a mixing paddle at low speed (approximately 300 RPM). Mix components for 3-5 minutes, allow to slake, then mix for a further 2-3 minutes until a uniform consistency is reached. Do not over mix as this could entrap air. Pot life is approximately 30-90 minutes.

ProofCrete 709 2K Cementitious Waterproofing Coating

APPLICATION • *ProofCrete 709* 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 must be left to dry for at least 4 days before they are filled with water.

CLEANING • Tools and equipment may be cleaned with fresh 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 • 20 kg paper bag (Part A), 5 liter Container (Part B).

Creative Concrete Concepts

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