



Water Guard 391 is a moderately flexible economical waterproofing coating. It is an eco-friendly waterproof coating for the protection of concrete and mortar. It provides good adhesion, flexibility, crack bridging ability and durability. **Water Guard 391** can be applied to various cementitious surfaces in marine structures, basement waterproofing, bathrooms, wet area waterproofing, swimming pools, roof waterproofing and water tanks, respectively. **Water Guard 391** is also suitable for potable water retaining structures and drainage culverts.

ADVANTAGES

- ✓ It displays excellent bonding to both concrete and masonry.
- ✓ Environmentally friendly and non-toxic in nature.
- ✓ Can be used in contact with potable water.
- ✓ Easy to apply.

TYPICAL PROPERTIES

Property	Result
Material Spread	300mm
Water Absorption	<0.05 (kg/(m ² .min0.5)) In compliance with W2 grade as per EN 998-1
Shrinkage	<1.5 mm/m
Flexural Strength	300+ psi (Specimens prepared at mortar consistency)
Compressive Strength	900+ psi (Specimens prepared at mortar consistency)
Water Pressure Resistance	25 PSI (±5%)
Water Head Resistance	Approx 57.7 ft (17 m) Water Head

*Typical results under laboratory conditions

SURFACE PREPARATION

The surface should be clean and sound, free of dust loose particles, grease, oil, primers from previous membrane systems or bitumen. Bitumen or primer should be repaired by cutting out to sound concrete and repairing with appropriate repair mortars, various repair mortars from the patch series of Ressichem Repairing Mortars can be used. Cracks, holes, and honeycombs must also be repaired. All surfaces must be repaired prior to application. Areas at brick / block walls to receive waterproofing coats of **Water Guard 391** should have brick joints evenly finished.



MIXING

Water Guard 391 is supplied in premeasured units. Slowly add the polymer powder to the liquid and mix using a slow speed drill machine fitted with a paddle to a lump free smooth consistency. Do not rework stiffened mix by adding water. Only mix enough of that can be used within 30 minutes. In hotter climatic conditions, the working time can be reduced.

APPLICATION

Saturate the concrete surface with clean water. Apply first coat while the surface is still damp but free from standing water. Apply using a short stiff bristle brush, roller at a rate of 1-2mm, depending on the expected water pressure. Required thickness is achieved by applying 2 to 3 layers, taking care that each layer is not thicker than 200 microns. Leave the first coat to dry for 2 to 3 hours before applying the second coat. Second coat can be rubbed down with a soft sponge. Spray or trowel application is acceptable provided that the mixing ratio is adjusted to achieve the right consistency. Leave the final coat of **Water Guard 391** to cure overnight and keep moist for 3-4 days before proceeding to conduct water proofing flood tests. It is recommended that for over hollow blocks or highly porous areas a minimum of 3 to 6 coats at 200 micron thickness to be applied.

CURING

Water Guard 391 should be protected from wind, sunshine, and rain until fully cured. Keep moist for 3 to 4 days after application.

PACK SIZE

Water Guard 391 is available in the following pack sizes.

3.2 KG pack size	Part A – 1 KG Liquid Part B – 2.2 KG Powder
16 KG pack size	Part A – 5 KG Liquid Part B – 11 KG Powder
20 KG Pack Size	Part A – 6.25 KG Liquid Part B – 13.75 KG Powder

COVERAGE

10 – 12 SFT / KG at two coats Actual coverage depends on porosity and texture of the substrate

SHELF LIFE

12 months from date of manufacture when stored under warehouse conditions in original un-opened packing. Extreme temperature / humidity may reduce shelf life.