



**Water Guard 491** is a two-component polymer modified highly flexible cementitious product. It is an eco-friendly waterproof coating for the protection of concrete and mortar. It provides excellent adhesion, flexibility, crack bridging ability and durability. **Water Guard 491** 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 491** is also suitable for potable water retaining structures and drainage culverts.

## ADVANTAGES

- ✓ Excellent elongation and flexibility.
- ✓ It is highly resistant to the effects of long-term weathering and durable in all-natural climatic conditions.
- ✓ It displays excellent bonding to both concrete and masonry.
- ✓ It does not require any additional over coating.
- ✓ Environmentally friendly and non-toxic in nature.
- ✓ Can be used in contact with potable water.
- ✓ Crack bridging and sealing.
- ✓ Excellent adhesion.
- ✓ Easy to apply.
- ✓ Excellent for damp proofing.

## TYPICAL PROPERTIES AT 25°C

Component	Two: Part A – Liquid Part B – Powder
Mixed Form	Slurry
Color	Grey, white, or other pigmentation
Toxicity	Non-Toxic (Tested as per BS EN 6920-1)
Working time	30-60 Mins
Elongation	200% ± 20% (Neat material) – (Tested as per ASTM D2370 – 16)
Setting time	3 hours

\*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 491** should have brick joints evenly finished.



## MIXING

**Water Guard 491** 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. In all cases, water can be added up to 5% of the total mix (if needed). Do not rework stiffened mix by adding water. Only mix enough of that can be used within 30 to 60 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 200-2000 micron, depending on the expected water pressure. Required thickness can be achieved by applying 2 to 3 layers, taking care that each layer is not thicker than 200 micron. 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 491** to cure overnight and keep moist for 3-4 days before if temperature exceeds proceeding 40°C to conduct water proofing flood tests. It is recommended that for over hollow blocks or highly porous areas a minimum of 3 to 4 coats at minimum 1 mm thickness to be applied.

## CURING

**Water Guard 491** should be protected from wind, sunshine, and rain until fully cured. Keep moist for 3 to 4 days after application.

## PACK SIZE

**Water Guard 491** 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 – 16 SFT / KG. 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.



## NOTE:

If printed packaging not available, neutral packaging with label. Lot number and manufacturing date to be stamped at the back of each packaging.

3.2 KG pack size



PRINTED



UNIVERSAL

16 KG pack size



PRINTED



UNIVERSAL



**RESSICHEM**<sup>®</sup>  
adding life and value to your property

20 KG Pack Size



**PRINTED**



**UNIVERSAL**

**TECHNICAL DATASHEET WATER GUARD 491**

**ریسیکیم**<sup>®</sup>  
مضبوطی اور پائیداری کے لئے

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