



# Aquathane R200

Polyurethane liquid membrane for waterproofing and protection

## DESCRIPTION

Single component high quality polyurethane coating that cures by reacting with the humidity in the atmosphere to form a strong film with excellent adhesion to different substrates. Can be applied by brush, roller or airless spray machine.

The product is based on pure elastomeric hydrophobic polyurethane resin with special inorganic filler that provide the material with excellent weathering resistance properties.

Aquathane R200 can be applied on dry concrete, fibrous cement, mosaic cement roof tiles, old (but well adhered) acrylic and asphalt coats, wood, corroded metal, and galvanized steel.

## APPLICATIONS

Waterproofing and protection of:

- » Roofs.
- » Light roofing made of metal or fibrous cement.
- » Bathrooms.
- » Gypsum and cement boards.
- » Asphalt membranes.

## ADVANTAGES

- » Excellent adhesion to almost any surface (special primers may be required for some substrates).
- » Excellent weather and UV resistance.
- » Excellent thermal resistance with a max service temperature 90°C.
- » Maintains elasticity in cold temperatures, down to -40°C.
- » Excellent mechanical properties, high tensile and tear strength, high abrasion resistance.
- » Allows water vapour transmission.

## LIMITATIONS

- » Do not use on unsound substrate.
- » Not recommended for waterproofing of swimming pool surfaces in contact with chemically treated water.
- » Since Aquathane R200 cures with moisture, low humidity conditions will extend the tack free time and recoat time.

## STANDARDS

Aquathane R200 complies with ASTM C836.

## TECHNICAL PROPERTIES:

Colour:	Grey
Specific gravity:	1.35 ± 0.05
Tack free time:	4 hr @ 25°C and 55% RH
Recoat time:	6 – 24 hr
Service temperature:	-40 to 90°C
Shore A hardness: ASTM D2240 DIN 53505 ISO R868	60 ± 5
Tensile strength at break: ASTM D412 EN ISO 527-3	≥ 5 MPa @ 23°C
Elongation: ASTM D412 EN ISO 527-3	≥ 300% @ 23°C
Water vapour transmission: ASTM E96	0.8 g/m <sup>2</sup> .hr
Adhesion concrete: ASTM D4541	≥ 2 MPa
QUV accelerated weathering test: ASTM G53	Passed (2000 hr)
Hydrolysis: (8% KOH, 15 days @ 50°C)	No significant elastomeric property change
Hydrolysis: (H <sub>2</sub> O, 30 days-cycle 60 – 100°C)	No significant elastomeric property change
HCL: (pH = 2, 10 days @ RT)	No significant elastomeric property change

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# Aquathane R200

## METHOD OF USE

### SURFACE PREPARATION

The surface should be clean, dry, sound and free from oil, grease and wax contamination.

Cement laitance, loose particles, mould release agent or curing membranes must be removed.

Fill surfaces irregularities with a suitable product. Maximum moisture content should not exceed 5%. New concrete structures need to dry for at least 28 days.

### PRIMING

To achieve optimum adhesion strength, it is recommended to prime porous and non-porous substrates with Aquathane Primer DUR.

Apply the primer in one or two coats at a rate of 150 to 200 gr/m<sup>2</sup>.

### APPLICATION

For spraying with airless spray machine thin with 10% of DCP Solvent PU. For any mixing done on site, a low speed (300 rpm) mixer or electric drill should be used. Apply the material with roller or brush in at least two coats, leaving 6 - 24 hours between coats.

### CONSUMPTION

- » First coat: 0.75 - 0.90 kg/m<sup>2</sup>.
- » Second coat: 0.75 - 0.90 kg/m<sup>2</sup>.
- » Total consumption: 1.5 - 1.8 kg/m<sup>2</sup>.

### CLEANING

All tools should be cleaned after finishing with paper towels and then wipe by using DCP solvent PU. Do not try to clean rollers.

## PACKAGING

Aquathane R200 is available in 1, 6, 15 and 25 kg packs.

## STORAGE

Aquathane R200 has a shelf life of 12 months from date of manufacture if stored in the original unopened pails at temperatures between 5°C and 25°C.

If these conditions are exceeded, DCP Technical Department should be contacted for advice.

## CAUTIONS

### HEALTH AND SAFETY

Apply in well ventilated areas. Do not smoke. Do not apply near naked flames. In closed areas use force ventilation and carbon active masks. Keep in mind that solvents are heavier than air so vapour concentration is higher in air closer to floor.

For further information refer to the Material Safety Data Sheet.

### FIRE

Aquathane R200 contains volatile flammable solvents.

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A wide range of construction chemical products are manufactured by DCP which include:

- » Concrete admixtures.
- » Surface treatments
- » Grouts and anchors.
- » Concrete repair.
- » Flooring systems.
- » Protective coatings.
- » Sealants.
- » Waterproofing.
- » Adhesives.
- » Tile adhesives and grouts.
- » Building products.
- » Structural strengthening.

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