

Aquathane R100 Black

High-performance polyurethane liquid membrane for waterproofing of wet rooms and non-exposed applications



Description

Single component low solvents polyurethane coating that cures by reacting with the humidity in the atmosphere to form an elastic strong film with excellent adhesion to different substrates.

The product is based on elastomeric hydrophobic polyurethane resin with a special filler that provides the material with excellent waterproofing performance for wet areas, substructures and any application not exposed to UV.

The excellent rheology of Aquathane R100 Black allows an easy application process even on vertical surfaces.

Applications

Waterproofing and protection of:

- ▲ Flat roofs under tiles or screed.
- ▲ Irrigation channels.
- ▲ Verandas and balconies (under protection).
- ▲ Bathrooms.
- ▲ Foundation walls.

Advantages

- ▲ Excellent adhesion to almost any surface.
- ▲ Excellent service temperatures between -40 up to 60°C.
- ▲ Excellent mechanical properties.
- ▲ Breathable so as there is no accumulation of humidity under the coat.
- ▲ Non-toxic after full cure.

Limitations

Do not use Aquathane R100 Black in the following areas:

- ▲ UV exposure.
- ▲ For waterproofing of swimming pools in contact with chemically treated water.

Standards

Aquathane R100 Black complies with ASTM C836 and EN 1504-2.

Technical Properties @ 25°C, 55% RH:

Colour:	Black
Specific gravity:	1.55 ± 0.05
Final full cure:	7 days
Service temperature:	-40 to 60°C
Shore A hardness: ASTM D2240	55 ± 5
Bond strength: ASTM D4541 BS EN ISO 4624	≥ 1.0 MPa @ 7 days
Tensile strength: ASTM D412	≥ 1.8 MPa @ 7 days
Elongation: ASTM D412	≥ 550% @ 7 days
Water vapour transmission: ASTM E96	0.8 g/m ² .hr

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.

Important: Do not wash surface with water.

Priming

In general, Aquathane R100 Black can be applied directly over well-prepared and sound concrete substrates. However, for highly porous surfaces, a layer of Aquathane R100 diluted with 10 - 15% of DCP Solvent PU can be used as a primer.

For applications on other type of substrates, please contact DCP's technical department for the best priming option.

DCP Saudi Co.
Riyadh Offices:
Exit 9, Al Izdehar, Beside ACDelco Petrol Station

Jeddah Offices:
Al-Henaki Business Center, Tower C

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Application

Apply Aquathane R100 Black using roller, brush or airless spray machine. The product should be applied at a minimum of two coats, do not leave more than 48 hours between coats.

Consumption

- ▲ First coat: minimum of 0.7 - 0.8 kg/m².
- ▲ Second coat: minimum of 0.7 - 0.8 kg/m².
- ▲ Total consumption: minimum of 1.4 - 1.6 kg/m².

Cleaning

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

Packaging

Aquathane R100 Black is available in 25 kg packs.

Storage

Aquathane R100 Black 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 advise.

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 R100 Black contains volatile flammable solvents.

More from Don Construction Products

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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Note:

We endeavor to ensure that any advice, recommendation or information we may give in product literature is accurate and correct. However, due to the fact that we have no direct or continuous control over where or how the products are applied, DCP cannot accept any liability either directly or indirectly arising from the use of DCP products, whether or not in accordance with any advice, specification, recommendation or information given by us.

