



# Aquathane PUB200

Two component polyurethane-bitumen liquid membrane for waterproofing

## Description

Aquathane PUB200 is a two-part polyurethane waterproofing coat extended with chemically polymerized virgin bitumen.

Aquathane PUB200 has excellent adhesion to many substrates producing a highly elastic membrane with excellent chemical resistance properties.

## Applications

Waterproofing and protection of:

- ▲ Basement and foundation.
- ▲ Irrigation channels.
- ▲ Gypsum and cement boards.
- ▲ Polyurethane insulation foams.
- ▲ EPDM membrane.
- ▲ Roofs.
- ▲ Asphalt membrane.
- ▲ Under tiles of bathrooms and balconies.
- ▲ Light roofing made of metal.
- ▲ Bridge platforms.
- ▲ Planters, roof-top gardens and flower pots.
- ▲ Lining of manholes.
- ▲ Tanks containing waste water.

## Advantages

- ▲ Excellent adhesion on many substrates.
- ▲ Fast curing.
- ▲ Good water vapour barrier.
- ▲ Good chemical resistance.
- ▲ Wide temperature resistance.
- ▲ Excellent mechanical properties.

## Standards

Aquathane PUB200 complies with ASTM C836-95.

## 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.

## Technical Properties:

Specific gravity:	0.95 ± 0.05
Tack free time:	1 - 2 hr @ 25°C & 55% RH
Recoat time:	6 - 24 hr
Pot life:	30 - 45 min @ 20°C
Service temperature:	- 40 to 80°C
Viscosity of mixture: ASTM D2196-86	3000 cp @ 25°C
Hardness shore A: ASTM D2240, DIN 53505, ISO R868	35
Tensile strength at break: ASTM D412, DIN 52455	2 MPa @ 23°C
Elongation: ASTM D412, DIN 52455	> 1000%
Maximum shock tem- perature:	150°C
QUV accelerated weathering test: ASTM G53	Passed (1000 hr)
Hydrolysis resistance (8% KOH, 10 days @ 50°C):	No significant elastomeric property change
Chemical resistance: (5% NaClO, 10 days)	No significant elastomeric property change
Water absorption: (10 days)	< 0.9%
Thermal resistance: (200 days @ 80°C) EOTA TR011	Passed

## Priming

It is recommended to use Aquathane MPU Primer with consumption of 150 to 200 gr/m<sup>2</sup>. Aquathane MPU Primer should be left for 12 - 24 hours to fully cure depending on ambient conditions.

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## Mixing

Mix equal volumes of the two components manually or with a low speed (300 rpm) mixer. The pot life is between 30 and 45 minutes at 20°C.

## Application

Aquathane PUB200 can be applied using a brush, roller or airless spraying machine. For the application using a spraying machine add 5 to 10% of DCP Solvent PU to thin the mixture. For any cracks larger than 1 mm, Aquathane PUB200 can be used to close them prior to the application of the main coat.

## Consumption

Aquathane PUB200 should be applied at a minimum consumption of 1.0 - 1.5 ltr/m<sup>2</sup>.

## Cleaning

All tools should be cleaned after finishing with paper towels and then wipe using DCP Solvent PU. Do not try to clean the roller.

## Packaging

Aquathane PUB200 is available in 2 x 5 litre, 2 x 20 litre or 2 x 200 litre packages.

Aquathane MPU Primer is available in 5 or 10 litre package.

## Storage

Aquathane PUB200 has a shelf life of 12 months from date of manufacturing if stored in a dry area away from direct sunlight and in 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

Use gloves and goggles. Avoid any contact with the eyes and skin. If accidental eye contact occurs, wash thoroughly with plenty of water and seek medical advice.

### Chemical Resistance after full cure ASTM D1308 (after 7 days immersion in the below chemicals)

#### Organic Acids

Acetic Acid 10%	R
Lactic Acid 10%	R
Maleic Acid	R

#### Inorganic Bases

Potassium Hydroxide 8%	R
Calcium Hydroxide	R

#### Inorganic Acids

Hydrochloric Acid 3%	R
Phosphoric Acid 10%	R

#### Waste Water

COD (4100 mg O <sub>2</sub> /l)	R
BOD (068 mg O <sub>2</sub> /l)	R
Long Chain Fatty Acids (3,21 mg/l)	R
Sulphuric Acid (66,3 SO <sub>4</sub> <sup>2-</sup> mg/l)	R
Chlorides (31,6 mg/l)	R
Total Phosphorus (9,2 Pmg/l)	R
Anionic Surfactants (0,04 G DDBS/l)	R

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

For further information refer to the Material Safety Data Sheet.

## Fire

Aquathane PUB200 contains volatile flammable solvents.

*Flash Point:*

Aquathane PUB200: 40°C.



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- ⬆ Adhesives.
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- ⬆ Structural strengthening.

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**Note:**

We endeavour to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.

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08-0063-A-2018