

# AQUABIT PU 1K

## High Flexible Black Polyurethane Liquid Applied Waterproofing Membrane

### Description

BITUMAT'S AQUABIT PU 1K is cold applied form modified bitumen extended aliphatic polyurethane waterproofing liquid membrane, specially designed from the blend of polyurethane compound grade of aliphatic resin, reinforced with special water repelling fillers, mineral stabilizers, and jelling agent. It cures by reaction with atmospheric moisture.

### Areas of Application / Uses

- Concrete roofs
- Polyurethane foam slabs
- Polyester built up roofs
- Maintenance of existing roofs
- Masonry and concrete walls
- Bathrooms
- Basements
- Bridge decks remove set alarm clock
- Metal surface

### Characteristics & Advantages

- Simple application (roller or airless spray)
- it is highly elastic product and cures too rubber like membrane capable of withstanding severe cases off expansion contraction and deck movements.
- When applied polymerizes and forms a seamless, waterproofing membrane without joints
- Resistant to water and frost. Leaves no bare spots or puddles
- Provides resistance to root penetration (green roof application)
- Crack-bridging up to 2 mm thick, even at 14 oF (-10 oC)
- Provides water vapor permeability (allows the substrate to “breathe”)
- Provides exceptional surface adherence without any additional anchoring
- Superior wetting and adhesion properties ensure durable bond and resistance to peeling, chipping, separation, and a longer life
- Maintains its mechanical properties over a temperature span of (-30 oC to 90 oC). No seasonal softening or hardening occurs
- The waterproofed surface can return to service
- The membrane can be easily repaired locally within minutes, in case it gets mechanically damaged
- Economical & Durable

## AQUABIT PU 1K - Technical Data

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Color	Black
Specific Gravity @ 25° C	1.15 ± 0.10 (ASTM D 1644-03)
Solid Content %	88 ± 5 (ASTM D 1475-03)
Viscosity	35000-45000 cps ASTM D 7042
Tensile Strength	1.6 N/m <sup>2</sup> ASTM D 412-98
Elongation @ Break	780 % ASTM D 412-98
Tensile Set recovery, %	95
Water vapor Transmission (g / h – m <sup>2</sup> )	0.46 ASTM E 96-95
Water Absorption	<3 g/m <sup>2</sup> /24hrs. ASTM E 96-95
Tear Resistance, KN/m	15
Service Temperature, 24 hrs @ 120°C	-5°C to 45°C
Chemical Resistance, % Weight Change - 10 % Salt (Sodium chloride) - 5 % Alkali (Caustic Soda) - 5 % Acid (Sulphuric)	3.0 2.0 3.0
Recoat Time @ 35° C	8 hrs
Adhesion to Concrete N/mm <sup>2</sup>	2.20 ASTM D 4541-10
Shore 'A' Hardness	50 ASTM D 2240-05
Drying Time @ 25° C	30 - 45 min ASTM D 1640 - 03

The information given in this Technical Data Sheet reflects typical median properties based on laboratory test, and practical experience; subject to the tolerance levels of EN, DIN & ASTM directives. However, as the product is often used under conditions beyond our control, we can't warrant but the product itself. This publication automatically supersedes all previous publications relating to this product.

### Safety:

Flammable when wet, flash point 40°C. Avoid repeated or prolonged contact, contact occurs clean with a hand cleaner and later wash with the soap and water.

### Shelf Life & Storage:

Minimum 12 months in unopened container. Store away from sunlight and preferably below 42°C.

### Packing:

AQUABIT 1K is available in 20kg Pail.