DURABIT PU

TECHNICAL DATA SHEET

DESCRIPTION

DURABIT PU BITUMEN is a two component, bitumen-reinforced, polyurethane based, fast setting liquid waterproofing compound.

TYPICAL APPLICATIONS

- Internal and external applications,
- Waterproofing against moisture or pressurized or non-pressure water,
- Cement based screed, plaster and exposed concrete surfaced, corroded metal and galvanized steel surfaces, existing ceramic, mosaic, bitumen and acrylic coatings,
- Foundations and flood-bearing walls,
- Areas that require plant root resistance,
- Non-potable water tanks and ducts,
- Deck roofs (must be covered/tiled),
- Parking lot and garage top surfaces,
- Terraces and balconies,
- Bridges and tunnels,
- Light roofing made of metal and fibrous cement,
- Gypsum and cement boards,
- Asphalt and EPDM membranes

ADVANTAGES

- Can also be used as joint filler.
- Can be applied as a thick layer; bubble-free application.
- Effective water vapor barrier.
- Fast curing.
- Forms a very elastic film and firmly adheres to almost any surface.
- High tensile and tear strength, excellent abrasion resistance.
- Perfect thermal strength.
- Will not soften under any circumstances.
- Resistant to cold, maintains elasticity even at -40 °C.
- High resistance to chemicals.

TECHNICAL PROPERTIES

Color: Black
Physical State: Liquid
Density: 1.00 ± 0,05 g/cm3
Application Temperature: +10 °C to +35 °C
Pot Life: 30 min.

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Drying Time: 1 to 2 hours at 25 °C and 55% relative humidity
Service Temperature: -40 °C to +80 °C
Hardness (ASTM D2240 / DIN 53505 / ISO R868 70): 35 shore A
Elongation Percentage (23°C) (ASTM D412): ≥ % 1700
Tensile Force At Break (23°C) (ASTM D412): ≥ 2 N/mm2
Adherence On Concrete: ≥ 2 N/mm2
QUV (Accelerated Uv Strength Test Under Weather Conditions): 1000 hours
Thermal Resistance (200 Days At 80°C): suitable
Short-Term Max. Temp. (Shock): 150 °C
The values above are valid for 23 °C and 50% relative humidity.

DIRECTIONS FOR USE SURFACE PREPARATION

• Clean the surface with a high pressure washer; oil, grease, fuel, and paraffin residues should be removed, and surface should be totally free from cement laitance, form-work release agents, loose particles, and cured membranes.

• Surface irregularities and cracks should be repaired with duragrout / durapur repair / rpm 601 / Dura ep

Concrete Substrate Standards:

Hardness: R28=15 mpa
Humidity: W<10%
Temperature: 5 °C - 35 °C
Relative Humidity: <85%

PRIMER APPLICATION

• Use durapur primer universal a primer. Please consult our technical department for substrates with high porosity and asphalt coatings.

APPLICATION

• Add 20 lt Component A to 20 lt Component B, and mix using a low speed mixer until a homogenous mixture is achieved.

• Apply the mixture with a brush or a roller in at least two layers. Do not wait for more than 48 hours between applications.Re-apply the primer if this time limit is exceeded (e.g. 4 days) or if you are not sure about bonding rates between layers. For airless spray applications, thin the mixture with a small quantity of solvent, especially for low-power machinery.

WATCHPOINTS

Remaining un-used materials may be stored for later use.

• Apply only onto sound substrates.

• Not suitable for use at swimming pools in contact with chemically processed water.

CONSUPTION

1,4 -1,7 kg/m²

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PACKAGING

20 kg set (a:10 kg can b:10 kg can)
30 kg set (a:15 kg can b: 15 kg can)
40 kg set (a: 20 kg can b: 20 kg can)

STORAGE AND SHELF LIFE

Store in dry and cool locations (temperatures between 5 ºC - 25 ºC).
Shelf life is 12 months under suitable storage conditions. Once the seal is broken use as soon as possible

HEALTH AND SAFETY

DURABIT PU contains small quantity of volatile flammable solvents. Do not smoke during application, and stay away from open flames and work at ventilated areas. In closed spaces, use ventilators and wear carbon active masks. Remember that solvents are heavier than air, and would thus creep on the floor.

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