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BestSeal PU450

Exceeding- elastic waterproofing membrane of polyurethane water-based.

Description: BestSeal PU450 is a one-component waterproofing membrane, highly elastic, cold-applied polyurethane waterproofing which cures into a membrane with excellent abrasion, mechanical, chemical, thermal, and UV resistance.

Uses: BestSeal PU450 is used to waterproof items such as:

- For roof waterproofing solutions in both new construction and refurbishment projects (exposed or concealed);
- Green roofing for energy efficiency; Parking areas and vehicular traffic system; Bridge decks, balconies, bleachers, and terraces ;
- Wet areas such as toilets, bathrooms, and kitchens as an under-tiling membrane.

Advantages:

- One component has no limited working time, easy to use, economical, and has no wasted materials.
- High bonding strength for most types of surface materials such as concrete, fired brick, mortar, plaster, fibro-cement, glass, tile, metal...
- High elasticity, and it performs waterproofing ability even when the concrete structure appears tiny cracks when expanding due to temperature changes. Good alkali resistance, water resistance, and weather resistance, especially for ultraviolet rays.
- Easy to apply with available tools such as roller, brush, nozzle...
- Non-flammable, odorless, and non-toxic to workers and the environment.

SPECIFICATION:

Appearance: Brown paste (wet state)/ Black appearance (dry state).

Chemical base: Polyurethane-bitumen hybrid, admixtures, and minerals other.

Density: 1.30 ± 0.02 kg/liter. (ASTM D1475-13)

Packaging: 5; 20; 25 kg/ pail.

Consumption: 0.5 ÷ 0.8 kg/m²/layer (Depending on the project.)

Storage condition: In a dry place, the ambient temperature is 5°C ÷ 35 °C.

Shelf life: 12 months from the date of manufacturing, in unopened conditions.

Elongation at break: ≥ 600% (ASTM D412).

Bonding strength: ≥ 1.0 MPa (on concrete surface) (ASTM D7234).

Crack bridging ability: ≥ 2.0 mm (BS EN 14981:2017).

Tack free time: ≥ 90 minutes (@ 30°C, thickness 300µm) (TCVN 6557).

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INSTALLATION:

Surface preparation:

- The surface concrete should be cleaned, with no dirt, no grease, no moss, and no mold. Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed.
- Uncertainty bonding points or coating, and old waterproofing locations should be removed by appropriate mechanical methods.

Application:

Stir well the product before applying.
If used as a primer: Prime with the same material by diluting with 30-45 % water. For more professional applications, apply primers BestBond AC301 (when directly coated on glass or ceramic.) at the rate of 0.25 ÷ 0.35 kg/m².
If used as a top coat: Use a brush, roller, or spray and apply BestSeal PU450 on the entire prepared surface at the rate of 0.5 ÷ 0.6 kg /m²/layer. At least 2 layers. It is required to ensure that the entire surface to be waterproofed must be covered with a uniform thick coat without pinholes.
 For high requirements at waterproofing, could apply 3 layers.

Notes:

- Mixing well before using.
- Applies at least 2 layers of the product. The next coating must be completed within 12-48 hours from the start of the previous coating.
- Do not apply in rainy conditions. In case it rains during construction, the construction work should be stopped immediately and promptly cover the construction area from being directly affected by rainwater.
- Surfaces subject to direct mechanical impact and exposure under UV rays need to be covered with a sand-cement mortar mixed with BestLatex R114, or R126 or BestSeal B12 with cement after applying BestSeal PU450.
- It is a self-cured product.

Cleaning:

Clean tools and equipment with clean water after work and before the mixture hardens.

Safety:

The product can cause an allergic reaction to sensitive skin with long contact. Should wear gloves, and mask, and glasses while applying the product. In case of contact with the eyes, nose, and mouth ... should be washed with clean water several times before going to the nearest medical facility for timely and correct adjustment.

Disclaimer:

The technical information and application instructions in documents of BESTMIX are based on BESTMIX's current knowledge and practical experience. The information here only describes the general nature of the product, so users should test the product for each purpose. BESTMIX has the right to change the features of our product, user must always refer to the latest technology product.

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