

Rocky PUWP 200

Description

ROCKY PUWP 200 is a single component moisture-cured elastomeric polyurethane membrane coating. It is liquid applied, user friendly, gives long lasting maintenance and free waterproofing protection to concrete and steel structures.

Use

- Shower recess and wet areas (floor & upturns)
- Decks, balconies, terraces and podiums
- Retaining walls
- Planters and landscaped areas
- Structural slabs
- Water retaining structures, fountains & swimming pools
- Roofs ,Decks ,Terraces, balconies
- Concrete, Cement
- Render
- Brick and block work
- Plaster board
- Masonry
- Steel and Timber

Advantages

- Creates a seamless, tough & flexible elastomeric membrane when fully cured.
- Excellent chemical resistance
- Resistant to standing water
- Excellent adhesion to various substrates with suitable primer

- Excellent resistance to water and carbon dioxide permeability
- High water vapor permeability
- Ready to use – no measuring and mixing required
- Excellent workability
- Reaches sufficient cure generally in 24 hours allowing for toppings or coverings to be placed
- Easy to repair

Technical Properties

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| Appearance | Liquid |
| Color | Grey, Tan |
| Density at 25 °C | 1.4 kg/L |
| Elongation (ASTM D412) | > 400 % |
| Tear resistance (ASTM D624) | >10 N/mm |
| Tensile Strength (ASTM D412) | >6 N/mm ² |
| Tensile Adhesion Strength (ASTM D 4541) | >1.5 N/mm ² |
| Water vapor transmission (ASTM E96) | 0.2 g/h.m ² |
| Shore A Hardness | 60 ± 5 |
| Crack bridging (ASTM C836) | No cracking, splitting pinholes or any other type of failure was observed at 3.2 mm |
| Tack free time at 25 °C | 12 hours |
| Final Curing time at 25 °C | 2 days at 1.0mm thickness |
| Swelling in Water at 3 days | Nil |

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Crack treatment

Shrinkages and non-moving structural cracks less than 1.0 mm shall be filled with a pre-treatment strip of ROCKY PUWP 200 of 1.0mm thick extended to 75 mm on both sides of the crack.

Right angle bends

All right-angle bends must have a coving detail installed. In areas where parapet walls, columns, pipe penetrations are present, a 45° coving fillet shall be made at all corners using ROCKY REPAIR FIBER, a Fiber reinforced shrinkage-controlled mortar for concrete repair to the water saturated cured surface.

All other angles, joints, protrusions and stress joints should be pre-treated with a heavy application of ROCKY PUWP 100 extending 150mm on both sides of the coving.

Priming

Highly porous concrete or concrete containing micro-silica will be primed using Polyurethane primer. The primer shall be applied at a rate of 5-6m²/L. It should be left to achieve a tack-free condition for 6-8 hours before applying the topcoat. A second coat of primer may be required if the substrate is excessively porous.

Mixing

ROCKY PUWP 200 should be stirred before use until a uniform color and consistency is achieved. Product is ready for use.

Application

ROCKY PUWP 200 shall be applied by brush, roller, trowel or airless spray in 2 coats to achieve a minimum dry film thickness of 1.0 mm for each coat. The two coats must be applied at right angles to one another.

A layer of a fiber glass mesh should be embedded between the two ROCKY PUWP 200 coats over pipe culverts, floor drains, corner joints and floor / wall junctions.

The final wet coat of ROCKY PUWP 200 shall be spread with sufficient clean silica and before applying tile adhesives. Tiling or finished floor installations should be carried out as soon as possible after full cure of membrane is established.

Recommendations

- ROCKY PUWP 200 is not recommended for UV exposure.
- Don't apply the product with imminent rain, or on humid support
- During application, relative humidity must be below 95% & substrate temperature at least +3°C above dew point temperature
- Moisture content of substrate should be maximum 4% by weight
- ROCKY PUWP 200 should not be applied on surfaces with a risk of rising dampness
- When applying over existing coating, compatibility & adhesion testing is recommended

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- The minimum application life for the opened pack is up to 48 hours if stored in closed and dry container
- Water test should be run after the membrane is fully cured
- During the peak temperature of the day in the summer season, working area should be covered to prevent direct sun effects

Surface Preparation

The surface of the concrete shall be sound, clean and uncontaminated.

This preparation shall be such as to leave a sound exposed concrete surface free from dust, loose particles and any deleterious matter. If the concrete surface is defective or has laitance, it must be cut back to a sound base.

Moss and lichen must be removed physically followed by treatment with fungicidal wash. After treatment, it must be washed down thoroughly with clean water and allow to dry.

Coverage

- The product supplied into sealed metallic containers of 4 and 15 Liters
- Consumption: 1.2 m² /Liter

Shelf Life & Storage

Keep the product in dry and sheltered place at temperature between +5°C and +25°C. In these conditions and in closed original containers, the product will have a shelf life of 12 months.

Health & Safety

During application, wear appropriate protective clothing, goggles, gloves and respiratory equipment if necessary.

In case of contact with skin, rinse with water and again wash thoroughly with soap and water. In case of contact with eyes, rinse with plenty of water and seek medical advice accordingly.

If ingested, obtain medical attention immediately. Do not induce vomiting

Important Note

The information in this Technical Data Sheet is based on Rocky-SCM Canada's experience. Rocky-SCM does not accept any liability arising from the use of its products as it has no direct or continuous control over where or how its products are applied. All Rocky-SCM Data Sheets are updates on regular basis. It is the user's responsibility to obtain the latest version.