

# Rocky PUWP 100

## Description

ROCKY PUWP 100 is a single component, liquid applied, elastomeric, aliphatic polyurethane based waterproofing coating. It cures with moisture in the atmosphere to produce a highly elastic UV stable seamless membrane with strong adhesion to many types of substrates.

## Use

- ROCKY PUWP 100 can be successfully applied on tiles, concrete, cement roof tiles, wood and galvanized steel
- Roofs
- Sunken slabs
- Concrete domes
- Profile sheets
- Kitchen and bathrooms
- Balconies and patios
- Basements
- Swimming pools and other water retaining structures, bridges and tunnels, etc.

## Advantages

- When applied, forms a seamless membrane without joints or leak possibilities
- Excellent crack bridging properties
- Easy application
- UV Resistant and withstands extreme weather conditions
- Provides glossy and easy-to-clean surface

- Offers excellent durability and superior abrasion resistance
- Repairable and re-coatable
- High tensile strength and elastic recovery
- Good resistance to ponded water

## Technical Properties

Appearance	Liquid
Density at 25°	1.4 kg/ L
Elongation (ASTM D412)	500 %
Tensile Strength (ASTM D412)	> 5 N/mm <sup>2</sup>
Tear Strength (ASTM D412)	> 10 N/mm
Modulus of elasticity at 100 % elongation (ASTM D412)	0.6 N/mm <sup>2</sup>
Crack Bridging (ASTM C1305)	2.5mm
Water vapor transmission (24 hours) (ASTM D2939)	0.3 g/h.m <sup>2</sup>
Shore A Hardness	40 - 5
Initial Cure @ 25°C	24 hours
Full Cure @ 25°C	7 days
Application Temperature	+5°C to +35°C
Service Temperature:	-10°C to +80°C

## **Rocky PUWP 100**

### **Crack treatment**

Shrinkages and non-moving structural cracks less than 1.0mm shall be filled with a pre-treatment strip of ROCKY PUWP 100 of 1.0mm thick extended to 75 mm on both sides of the crack. Voids and honeycombs shall be patched with ROCKY SUPERIOR FINISH 3-6 or products allowing the area to cure before applying the membrane.

### **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 5-6m<sup>2</sup>/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 100 should be stirred before use until a uniform color and consistency is achieved. Product is ready for use.

### **Application**

ROCKY PUWP 100 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 fiber glass mesh should be embedded between the two ROCKY PUWP 100 coats over pipe culverts, floor drains, corner joints and floor / wall junctions.

The final wet coat of ROCKY PUWP 100 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.

### **Cleaning**

All tools employed for the application of ROCKY PUWP 100 can be cleaned with water before it hardens.

Cured materials should be mechanically removed.

### **Recommendations**

Never apply ROCKY PUWP 100 on porous surfaces such as blocks, cement boards and lean cement / sand screed without priming the surface first. For exposed areas such as roofs and external walls, it is highly recommended to apply ROCKY PUWP 100 at early mornings or evenings when the temperature is low.

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### 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

- ROCKY PUWP 100 is packed in 4- and 15-Liter Cans.
- Consumption: 0.8m<sup>2</sup>/Liter at 1mm thick depending on the porosity of the substrate.

### 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.