

ROCKMAX[®] PU33

POLYURETHANE CONCRETE MORTAR FOR COVING AND VERTICAL SURFACES



INTRODUCTION

Rockmax PU33 is a four components solvent free, seamless polyurethane concrete mortar for vertical system with a matt finished. Use for apply vertical coving from 3mm to 9mm thickness by layer.

AREA OF USES

Rockmax PU33 must use combination with **Rockmax PU54** and **Rockmax PU98** application including:

- Coving.
- Drain and Gutter lining.
- Plinths.
- Machines Foundation.
- Curb.

ADVANTAGES

- Excellent chemical resistance.
- Excellent abrasion and impact resistance.
- Excellent temperature resistance from -40°C & +120°C (9mm thickness).
- Slip resistance.
- Fast curing.
- Seamless.
- No solvent.
- Easy to apply.

TECHNICAL PROPERTIES

Color: grey, green, cream

Density: 2.1

Compressive strength: > 50 N/mm²

Flexural strength: >15 N/mm²

Tensile strength: >7 N/mm²

Bond strength: concrete fail

Temperature resistance: -20°C & +100°C

Coefficient of thermal expansion: 1.7x10⁻⁵C

Pot life (at 28°C): approx 15-18 minutes

Thickness: 3-6mm per layer

Final curing: 28 days

Working temperature: 10°C - 40°C

Temperature should not fall below 5°C in 24 hours after application.

Coverage rate (approximate):

2.0 – 2.3 kg/m²/mm.

Note: Slightly yellowing of the floor surface may occur as the floor exposed to direct sunlight but not effect the performance of flooring.

PREPARATION

Concrete must be sound, clean and free from cement paste, dust, dirt and any other contaminants. The surface must be treated by mechanical means such as shot blasting, grinding, scabbling or water jet for increase bonding between substrate and flooring system. Concrete must be at least 25N/mm² Compressive strength and minimum tensile strength (pull off) at 1.5 N/mm². The concrete surface must be visibly-dry no dark areas on concrete surface which excess moisture. The working ambient and surface temperature should not below 10°C while installation. All movement joints must be prepared prior to installation flooring system. If moisture content in concrete higher than 4% Moisture Barrier must be applied. All groove joints must be prepared at 5mm width x 5mm depth around the edge, intersection, joints, drains, gutters and etc.

PRIMING

Apply **Rockmax PU primer** at coverage rate 0.2kg/m² for one coat application.

MIXING

Mixer must use low speed drill mixer (500 rpm) with and including non-aerating steel paddle such as jiffy paddle. Make sure all tools and equipments are in good conditions and clean.

Add part A and part B into the mixing drum. Mix for 15 seconds. Add part C and further mixing for 1 minute follow with part D and continue mixing for 1 minute to achieve fully homogenized consistent mortar.

APPLICATION

Trained and approved specialist applicator was required to be installed this products. Apply Rockmax PU33 immediately after mixing while Primer still tacky.

CURING

Protect flooring system from foot traffic at approximate 8 - 10 hours and 24 hours for light vehicle traffic. Services operation must be at least 28 days.

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CLEANING

Clean all tools and equipments immediately with thinner and solvent.

LIMITATIONS

- Do not installation on asphalt, timer, stainless steel, aluminium, tile, bricks and normal cement screed.
- Installation temperature should not below 10°C degree.
- Use only non-aerating paddle.
- Any damaged to floor can not be repaired easily.

PACKAGING

32kg pack.

part A: 3 kg

part B: 3 kg

part C: 14 kg

part D: 12 kg

STORAGE

Storage in shade and dry condition. Avoid from sunlight, frost, water, moisture and high temperature.

SHELF LIFE

12 months if kept follow instructions.

PRECAUTIONS

Avoid contact with skin and eye. Avoid inhalation. Harmful effects may cause during application and care must be taken. If mixed resin comes into contact with skin it must be removed before it hardens with a resin removing cream such as kerocleanse standard grade, Skin Cleanser, followed by washing with soap and water. Do not use solvent. Do not expose to flames or other sources of ignition. No smoking allowance.

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