

ROCKMAX[®] POLYGARD V3

POLYURETHANE LIQUID MEMBRANE



INTRODUCTION

Rockmax Polygard V3 is a one component, seamless liquid applied polyurethane based waterproofing membrane. The cured material provides highly flexible, root penetration resistance, excellent bonding to many substrates, crack bridging ability, elasticity with and include impervious waterproofing membrane. The material can be applied by roller or spray method.

AREA OF USES

- Flat concrete roofs.
- Wet areas such as toilets, bathrooms.
- Swimming pools, ponds.
- Balconies and terraces.
- Planter boxes.
- Foundations, basements.
- Retaining walls.

ADVANTAGES

- Excellent flexibility.
- Excellent elongation.
- Excellent adhesion.
- One part ready to use.
- Durability.
- Seamless membrane.
- Root penetration resistance.
- Excellent resistance to oxidation.
- Can apply on rough surface.

TECHNICAL PROPERTIES

Standard color:	Green, Grey, Black
Chemical base:	Polyurethane
Form:	Liquid paste
Specific gravity:	1.35±0.05
Solid Content:	95% (by weight)
Water vapor transmission:	5.5 g/m ² /24hrs
Elongation at break:	550% ± 100%
%Recovery from 300% elongation:	96%
Shore A Hardness:	40-50
Tensile strength:	>2.5 N/mm ² (28 days)
Adhesion to concrete:	>1.8 N/mm ² (28 days)
Crack bridging 2mm:	pass
Pot life (30°C):	45 minute
Foot traffic (30°C):	24 hours
Curing time (30°C):	7 days
Application temp:	10°C - 40°C
Coverage rate (roller):	0.40 – 0.45 kg/m ² /coat
Number of coat:	minimum 2 coats
Thickness per coat:	0.30–0.35 mm (approx)
Consumption at 1mm:	1.35 kg/m ² (approx)

Note: The figures are theoretical and test on control environment laboratory. Actual measured data may vary due to circumstances.



PREPARATION

Concrete substrate must be sound, clean free from oil, grease, mould oil, dust, and loose particles and cement paste. Ensure the surface is dry and free from standing water. Investigate void, honeycomb, or crack on concrete substrate. All damaged must be repair prior to application. All joints and corner must be treated with **Rockmax PUseal** (Polyurethane sealant). All detailing must be treated to achieve correct system.

PRIMING

Apply **Rockmax Polygard Primer** by roller at one coat at approximate coverage rate 0.2 kg/m². Allow the prime coat to dry approximate 4 hours.

APPLICATION

By Roller/Brush:

Stir **Rockmax Polygard V3** by low speed electric mixer (400-500 rpm) at approximate 1-2 minute before application. Apply material by brush or roller with minimum two coats application. Allow each coat to dry at approximate 24 hours. The dry film thickness of membrane must be at minimum 0.25-0.30 mm thickness per coat.

By Spray:

Apply using airless spray equipment with pump. The consumption of material (spray) depended on environment, skill of worker, machines and equipment. Care must be taken. The material must be applied by trained and experienced applicators.

CURING

Rockmax Polygard V3 must be cured for tack free at least 24 hours and 7 days for full cure. The material must be protected by cement sand

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screed or protection board (such as cement or bitumen board) prior to backfilling.

CLEANING

Clean all tools and equipments immediately with thinner. Hard material must be removed by mechanical means.

LIMITATIONS

- Slightly yellowing of the surface may occur as the material exposed to direct sunlight but does not effect the performance of waterproofing.
- Pot life, Tack free and curing time is depended on the ambient and substrate temperature.
- The thicker thickness can be achieve depend on design system. We recommended for economical at minimum thickness at 0.50-0.60mm at two coat applications.
- Wear protective gloves, goggles, suite and all standard safety protections when apply this material.
- Do not use as expose waterproof membranes.

PACKAGING

18kg pail.

STORAGE

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

SHELF LIFE

9 months if kept follow instruction.

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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IMPORTANT NOTE!!

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