

ROCKMAX PU54

HIGH PERFORMANCE SELF LEVELING POLYURETHANE FLOORING SYSTEM



INTRODUCTION

Rockmax PU54 is a heavy duty three components polyurethane resin, one layer, self leveling seamless flooring system. It designed for high impact resistance, abrasion resistance and chemical resistance. Additional it is highly resistance to antimicrobial. Be able to achieve from 3 to 6 mm thickness in attractive matt color. Ideal use for hygiene & food industry.

AREA OF USES

- Drink and food production areas.
- Beverage manufacturers.
- Pharmaceutical factories.
- Chemical processing plants.
- Textile production areas.
- Electronic manufacturers.

ADVANTAGES

- Contain antimicrobial additive.
- High chemical resistance.
- High abrasion and impact resistance.
- Strong & durable floor.
- Monolithic flooring system.
- Resistance to thermal shock.
- Easy maintenance.
- Seamless & one layer.
- Low ordour.

TECHNICAL PROPERTIES

Color:	grey, green, cream, red
Density:	1.9 kg/mm/m ²
Compressive strength:	> 50 N/mm ²
Flexural strength:	> 18 N/mm ²
Tensile strength:	> 8 N/mm ²
Bond strength:	Pass (concrete failure)
Water permeability:	Nil
Vapor permeability:	5g/m ² /24hrs
Coefficient of thermal expansion:	3.5x10 ⁻⁵ C
Temperature resistance: (at 6 mm thickness)	0°C to +75°C
Pot life (at 25 °C):	10 - 15 minutes
Thickness:	3 to 6 mm
Working temperature:	+10°C to +40°C <i>Temperature should not fall below 5°C in 24 hours after application.</i>

Coverage rate (approximate):

3mm thickness:	6.0 - 6.3 kg/m ²
4mm thickness:	8.0 - 8.4 kg/m ²
5mm thickness:	10.0 - 10.5 kg/m ²
6mm thickness:	12.0 - 12.6 kg/m ²



Slightly yellowing of the floor surface may occur as the floor exposed to direct sunlight but does not affect the performance and durability of flooring.

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

PROFESSIONAL USE ONLY

PREPARATION

Concrete must be sound, clean and free from cement paste, dust, dirt, laitance and any other contaminants. The surface must be treated by mechanical means such as **shot blasting, grinding, scrubbing or water jet** for increase bonding between substrate and flooring system. Concrete must be at least 25 N/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 5°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 approximate 20mm width x 8mm depth around the edge, intersection, joints, drains, gutters, plinths, slopes, steel plates, wall-floor joints.

PRIMING

Use **Rockmax PU54** as scratch coat by roller apply at 1 mm thickness or use **Rockmax PU Primer** for 1 coat application.

ROCKMAX PU54

HIGH PERFORMANCE SELF LEVELING POLYURETHANE FLOORING SYSTEM



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.

Mix part A and part B for approximate 15 second until homogeneous. Add part C into the container whilst still mixing further for 1-2 minute until homogeneous. The product must be pour and spread immediately.

APPLICATION

Pour **Rockmax PU54** on the prepared area and apply by trowel rake or squeegee follow immediately with spike roller and work until finished approximate 15 minutes. Trained and approved specialist applicator was required to be installed this products.

CURING

Based on 25 degree Celsius

Foot traffic: 12 hours

Vehicle traffic: 24 hours

Operation time: 72 hours

Full cure: 7 days

CLEANING

Clean all tools and equipments immediately with acetone, xylene or other solvents.

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.
- High moisture in concrete maybe effect debonding & bubble of floor.
- Preparation of floor need to be done prior for installation.

PACKAGING

20kg set.

part A: 3 kg, part B: 3 kg, part C: 14 kg

STORAGE

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

SHELF LIFE

12 months if kept proper storage area follow instructions and un-open.

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.

CONTACT DETAIL

THAILAND

Rockmax Company Limited

T: +66 2 8648658


F: +66 2 4184327

E: info@rockmax.net

W: www.rockmax.net

IMPORTANT NOTE!!

The technical information contained herein, while not guaranty, was prepared and approved by technical personnel and is true, accurate to the best of our knowledge. No warranty or guaranty is made regarding performance, stability or other factors beyond our control. Rockmax will welcome to be consultation of our performance and application. This technical datasheet supersedes and issue new edition without prior notice.

 Printed on recycled paper
Copyright©2009 Rockmax