

# ROCKMAX<sup>®</sup> POLYLASTIC SA1



100% SPRAY APPLIED POLYUREA FOR  
WATERPROOFING & PROTECTIVE COATING

## INTRODUCTION

**Rockmax Polylastic SA1** is a two component, 100% solid pure elastomeric polyurea coating. The cured membrane provides excellent flexible, durable, chemical resistance and corrosion protection. This material has been designed for machine application only.

## AREA OF USES

**Rockmax Polylastic SA1** can be used to waterproofing and protective coating for concrete structures such as roof decks, watertanks, basements, bridge decks, steel tanks, steel pipes., power plants, oil refineries, wood structures.

## ADVANTAGES

- Excellent elongation and tensile strength.
- Excellent chemical resistance.
- Excellent oil resistance.
- Excellent corrosion protection.
- Very good bonding to substrates.
- Fast reactive and cured time.
- 100% solids (zero VOCs).
- UV resistance.
- Services temperature from -30°C to +120°C degree.

## TECHNICAL PROPERTIES

### Part A:

Color: clear  
Form: Liquid  
Specific gravity: 1.12  
Viscosity (at 25°C): 550±100 cps

### Part B:

Color: color pigmented  
Form: Liquid  
Specific gravity: 1.01  
Viscosity (at 25°C): 450±100 cps

### Mix:

Chemical base: pure polyurea  
Mixing ratio (A:B): 1 : 1  
Solid Content: 100%  
Gel time: 10-20 second  
Tack free time: 60-120 second  
Post cure time: 24 hours  
Recoating: within 12 hours

### Physical Properties:

Shore A Hardness: 85-90  
Tensile strength: >16 N/mm<sup>2</sup>  
Elongation at break: 400±100%

Tear strength: >70 N/mm<sup>2</sup>  
Abrasion resistance: <14 mg  
Temperature resistance: -30°C to +120°C  
Application temperature: -10°C to +65°C  
Relative air humidity: 85% RH max  
Coverage rate (spray): 1.00 – 1.10 kg/m<sup>2</sup>/mm

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. New concrete must be at minimum 28 days old. Do not apply when ambient temperature is below -10°C degree. 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.

## EQUIPMENT

This product may only be use by trained experience applicators/users. The equipment must be use is two part hot spray high pressure (>1500psi) machine only which can stable the hose the temperature from +60°C to +70°C. Pre-heat the equipment shall be +70°C to +75°C. Physical properties will be enhance when spray at more than 2500psi.

## MIXING

Dose and mix with suitable two-part hot spray equipment. Both components must be heated up to between +60°C and +70°C. The accuracy of mixing and dosage must be controlled regularly with the equipment. Stir each part before load in to the equipment.

## PRIMING

The type of primer is varies and depend on substrates conditions. Please consult **Rockmax** for more information.

## APPLICATION

The material can be sprayed over a broad range of substrate and ambient temperature. The limitation are in the ability of equipment to provide adequate pressure and stable temperature. Spray the material in multi direction (nort-south/east-west). Ensure the uniform of thickness.

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## CURING

Temp	Foot traffic	Ready to traffic
0°C	9 min	100 min
+10°C	6 min	50 min
+20°C	5 min	35 min
+30°C	2 min	20 min

## CLEANING

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

## LIMITATIONS

- For professional use only.
- Avoid moisture contaminate in containers.
- Container should not be resealed once moisture is contaminated. Do not use material with contaminate with moisture.
- The temperature during application must be not less than -10°C.
- Always trial test area first.

## PACKAGING

Part A: 200Litre drum

Part B: 200Litre drum

## STORAGE

Storage in shade and dry condition. Avoid from frost, water, UV, moisture and high temperature. Store from +10°C to +35°C.

## SHELF LIFE

6 months for un-open container and 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.

## CONTACT DETAIL

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### *IMPORTANT NOTE!!*

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