

ROCKMAX[®] PUSEAL

ONE PART POLYURETHANE SEALANT



INTRODUCTION

Rockmax PUseal is a one component polyurethane sealant with excellent elasticity, weather resistance, non-sag and good watertight. Use for filling and sealing concrete joints with no primer required. After application **Rockmax PUseal** cures with atmospheric moisture to form a durable seal. The material conforms to ISO11600 F-25 LM and ASTM C920.

AREA OF USES

- External and internal joints.
- Expansion joints.
- Movement joints.
- Construction joints.
- Precast-concrete joints.
- Brick, masonry and block work joints.
- Window and doors joints.
- External cladding.
- Aluminium, steel, stainless steel, PVC, uPVC, wood, glass, glazed substrates.

ADVANTAGES

- Excellent elongation.
- Excellent adhesion.
- Excellent weather resistance.
- No stain.
- Watertight.
- Bio degradation resistance.
- Durability.
- Less wastage, apply by gun.
- Can paint on top.
- Easy to use.
- Non toxic.
- Non sag.

TECHNICAL PROPERTIES

Color:	grey,white,black
Specific Gravity:	1.35
Hardness Shore A:	25±5
Movement Capability:	±25%
Modulus (at 100%):	0.20-0.25 Mpa
Elongation at break:	approx 600%
Elastic Recovery:	> 70%
Skin Formation Time):	4 - 6 hour
(23°C, 50% R.H.)	
Resistance to flow (23°C):	<3mm
Temperature of application:	5°C to +38°C
Temperature of services:	-20°C to +80°C
Temperature of substrate:	max +50°C
UV resistance:	Very good
Chemical resistance:	Very good
Water immersion resistance:	Excellent

Resistance to spill salt water: Excellent

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

PREPARATION

The joints must be clean and dry. Remove all dirt, dusts, cement pastes, oil, grease and other contaminants. Concrete substrate age must be minimum 4 weeks old. Make sure the joints are in good condition and good shape. The repair and structural sound of joint surface is required by mechanical mean. Joints edge must be straight and sharp. Damaged joints edge must be repair by epoxy mortar or consult **Rockmax** for further advice.

PRIMING

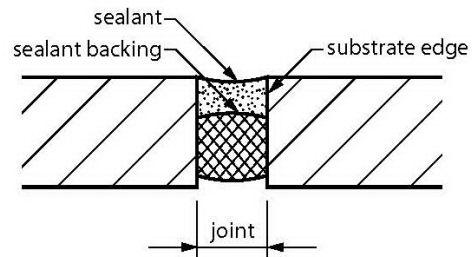
Good condition and dry concrete joints does not require for primer. In case of porous concrete joints or damp surface, we recommended to apply **Rockmax PU primer** along the joints. Allow the primer to dry at least 30-45 minute before sealant application.

APPLICATION

Backer rod and joint filler materials must be use to control the depth of joint sealant and movement direction of joint sealant. Apply **Rockmax PUseal** continuous by gun along the joint line. Press constant pressure. Paper tape should be use on top of surface to control excess sealant and nice appearance. Finish the surface of sealant with spoon or metal strap.

TYPICAL SECTION

Maximum width of joint: 35 mm
Minimum depth: 8 mm



CURING

Rockmax PUseal curing time is approximate 7 days (thickness of sealant at maximum 10mm with temperature at 30°C degree) prior to subject with water or loading. The protection is required such as plastic sheet to protect from rain and water.

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CLEANING

Clean all tools and equipments immediately with white spirit or acetone.

LIMITATIONS

- **Rockmax PUseal** should not be used in area contain high chloride, PE, PP, teflon and bituminous substrates.
- Maximum joint width is 35mm and minimum joint width is 4mm.
- Two way subjects to movement only.
- Because of the sensitivity of polyurethanes to UV, clear colours may change over time. However it does not affect the mechanical properties of the cured product.
- Special surface of joint must be consult with **Rockmax** for further advice.
- This is technical products which require special or train applicator can use.

PACKAGING

600ml foil sausage.

STORAGE

Storage in shade and dry condition. Avoid from frost, water, moisture and high temperature (min-max 5-30°C). Do not expose to sun light.

SHELF LIFE

12 months if kept follow instructions and un-open.

PRECAUTIONS

Avoid contact with skin and eye. Goggle and glove must be use while application. Clean with plenty of water when contact with and see doctor as quick as possible. MSDS is available upon request.

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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.

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