

ROCKMAX® PSSEAL

TWO PART GUN & POUR GRADE POLYSULPHIDE SEALANT



INTRODUCTION

Rockmax PSseal is two component, low modulus polysulphide joint sealant. The cured material provides good bonding, elasticity, flexible and durable joint sealant. The material based on polysulphide polymer and selected additives. It is use for many application areas which requires high performance and chemical resistance & deterioration resistance sealant with exposure to direct UV environment.

AREA OF USES

Rockmax PSseal can be use to seal movement joints or contraction joints in dams, subways, treatment tanks, water tanks, bridges, highways, runways, civil engineering structures, parapets, roofing, industrial, petrochemical complex industrial floors, Metals, basements, vertical & horizontal joints etc.

ADVANTAGES

- Excellent elongation and flexibility.
- Good recovery characteristics.
- Good Watertight.
- Very good UV resistance.
- Excellent Chemical resistance including with fuel, oil, sea water.
- Good resistance to ageing.
- Excellent bonding to most building materials.
- Provide permanent & durable joint sealants.
- Non-stain.
- Non-toxic (cured).
- Good resistance to cycle movement.
- Durability.

TECHNICAL PROPERTIES

Color:	Grey
Specific Gravity:	
Gun grade:	1.50
Pour grade:	1.30
Hardness Shore A:	25-30 (full cure)
Elongation:	>300%
Water resistance:	Good
UV resistance:	Excellent
Chemical resistance:	Excellent
Movement capacity:	25%
Application temperature:	+5°C to +40°C
Services temperature:	-35°C to +100°C
Pot life (at 25°C):	120 minute
Tack free time (at 25 °C):	6 hours
Initial cure (at 25 °C):	24 hours
Full cure (at 25 °C):	7 days

JOINT DETAIL

Rockmax PSseal is suitable to use in joint between 6mm and 30mm width for one application. The depth of joint sealant must be at least 6mm (for non-porous concrete) and 10mm depth (for porous concrete). For heavily vehicle traffic or high water pressure joint the minimum depth of joint must be at minimum 15mm. The optimum designed joint width /depth ratio must be 2:1. The joint filler must be use to control the shape and depth of joint include bitumen filler board, fiberboard or backer rod (polyethylene base).

PREPARATION

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

PRIMING

All concrete joints must be prime by **Rockmax PS Primer**. The primer must be applied by brush and allow until tack free prior to install backer rod and apply joint sealant. However if sealant is not apply after 4 hours, Re-prime surface again. Install guide tape both side of joints for proper finished. Other substrates such as steel, glass, ceramics etc. please consult **Rockmax**.

BACK-UP MATERIAL

All movement joints must be install backer rod to control two way movements. The backer rod must be made from closed cell polyethylene material. The diameter of backer rod must be at least 20% to 25% larger than joint width. Beware Do not damage of backer rod during installation. In case of small joints which backer rod can not be use, a bond breaking tape must be applied.

MIXING

The material supply in one container. The base and curing agent are store in the single pack. Use slow speed electric mixer (400-500rpm) for mixing the material. Mix for 4-6 minute until the

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product dispersed and uniform color and homogeneous. Do not mix by hand trowel or do not partial mix.

APPLICATION

Horizontal joint:

Pour the mixed material to the joints direct from container. Care should be taken during application. Finishing the surface of sealant using curve spatula or similar tools to make concave profile of sealants.

Vertical joint:

Pour the mixed material to barrel gun. Apply the sealant from bottom of joint and continuously apply. Finishing the surface of sealant using curve spatula or similar tools to make concave profile of sealants.

Remove guide line tape immediately after the sealant is applied.

CURING

Curing time depend on ambient temperature. Full cure take at approximate 7 days. Protect the sealants from water, traffic and other contaminants.

CLEANING

Clean all tools and equipments immediately with solvent or xylene.

LIMITATIONS

- Do not use for overhead joints.
- Do not apply on damp joint surfaces.
- Do not apply on asphalt pavements.

PACKAGING

Gun grade: 2.5 litre/ container

Pour grade: 4.5 litre/ container

STORAGE

Storage in shade and dry condition. Avoid from frost, water, sun light, UV, moisture and high temperature (max 30°C). Keep away from source of ignition.

SHELF LIFE

12 months if kept follow instructions.

PRECAUTIONS

The material is harmful if ingestion. Wear safety glove, safety eye protection when installation. Avoid contact with skin and eye. Avoid inhalation. Harmful effects may cause during application and care must be taken. Do not expose to flames or other sources of ignition. No smoking allowance. Ventilation must be provided. Some components of this product may be hazardous during mixing and application. Keep out of reach of children. MSDS is available upon request.

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IMPORTANT NOTE!!

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