



Roka Seal PS

Two Component Gun Grade Polysulphide Sealant

Roka Seal PS is a polysulphide based elastic sealant for horizontal and vertical expansion joints. Roka Seal PS is suitable for hot and tropical climatic conditions.

Uses & Advantages:

- Economical.
- Easy to use.
- Good adhesion with most materials.
- Suitable for both vertical and horizontal applications.
- Good weathering and ageing properties.
- Good chemical resistance.
- Non-sagging.
- Permanently elastic.

Fields of Application:

Roka Seal PS is used in many buildings and civil engineering constructions as a sealant for horizontal and vertical expansion joints such as

- Bridges.



+92 321 4543320



info@rokachemsolutions.com



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- Tunnels.
- Subways.
- Reservoirs.
- Retaining Walls.
- Precast concrete elements.
- Where a permanently flexible seal is required.

Technical Information:

Color	Grey Paste
Chemical Base	Cross-linking polysulphide
Density	~1.58 kg/l
Mixing Ratio	A : B = 24 : 1 by weight
Solid Content	100%
Pot Life	2 hours at 25°C
Tack Free Time	2 hours at 23°C & 50% Relative Humidity
Curing Rate	2mm/24 hours at 23°C
Full Cure	7 days at 25°C



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Ambient Temperature	5°C - 50°C
Ambient Surface Temperature	5°C - 50°C
Service Temperature	-15°C - 75°C
Shore A Hardness	~25
Movement Capability	±25%
Shelf life	12 months
Storage	Store in original, unopened and undamaged packaging, in a dry, shaded and cool area & away from direct sunlight.

Joint Configuration:

The joint width must be designed to suit the movement capability of the sealant. For butt joint the width to depth ratio should be 1:1. For joints expected to move a width to depth ratio of approximately 2:1 must be maintained.

Area of Application	Minimum Joint Width
Non-porous surface	6mm
Porous Surface	8mm
Joints Exposed to Hydrostatic Pressure	20mm
Trafficked Joints	20mm



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Surface Preparation:

Ensure all surfaces are clean, dry, and free of loose particles. Check the joint edges for stability, and if any weakness is found, create a recess and fill it with appropriate repair mortar. To set the correct joint depth, tightly insert a closed-cell polyethylene backing rod into the joint. If fiber-filled boards are used, rake them back to the required depth. Then, apply bond breaker tape over the backing material and protect adjacent surfaces using masking tape.

Priming:

Roka Primer EP 1 should be used as a primer to ensure better results. Let the primer dry for at least 30 minutes before applying Roka Seal PS.

Mixing:

Roka Seal PS is supplied in pre-measured quantities of base and curing agent. Empty all the material content in a suitable mixing container and mix with an electric hand drill with an appropriate paddle attachment for 5 minutes or until a smooth, homogenous consistency is achieved. Ensure using a slow speed drill (not exceeding 500rpms) to avoid entrapping air.

Application:

Using a masking tape, protect the surrounding area. Load the mixed material directly into a bulk or caulking gun. Apply the sealant directly into the joint maintaining consistent pressure to force



+92 321 4543320 |



info@rokachemsolutions.com |



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83 A, Block C, PAF Colony, Zafar
Shaheed Road, Lahore Cantt, Pakistan



sealant into the joint without any air entrapment. Smoothed the area using a spatula to form slightly concave profile. Remove the masking tape and finish off the applied area with a detergent solution.

Cleaning:

Clean all the tools and equipment immediately after use with a suitable solvent. Hardened material can only be removed mechanically.

Important Note:

The information provided in this data sheet is based on ongoing development efforts and extensive field experience. While we strive to ensure the accuracy and reliability of the information, we cannot assume responsibility for any work performed using our materials, as we have no control over application methods, site conditions, and other factors. Due to ongoing research and development in our laboratories, we recommend that customers verify that this data sheet has not been replaced by a more recent publication.

All products are sold under our standard conditions of sale, which are available upon request. Any field services offered do not imply supervisory responsibility. For further information, please contact your local representative of Roka Chem Solutions.



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rokachemsolutions.com



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