

ROCKSEAL 6600G

(TWO COMPONENT GUN GRADE POLY-SULPHIDE SEALANT)



DESCRIPTION

ROCKSEAL 6600G are two component Polysulphide liquid elastomer. It consists of a 'base' compound and 'accelerator' (Curing Agent). When the two components are mixed together prior to application, a chemical reaction is initiated which cures instantly to a firm, flexible rubber like seal with excellent adhesion to concrete, masonry, wood, glass, acrylic and PVC plastics. It is capable of withstanding repeated extension, compression & cyclic movements without the loss of adhesion and resists deterioration by weathering, sunlight, ozone, water, salt, oils and fuels. It is far superior to all the conventional joint sealing material like bitumen, mastics, metallic channels and expansion sheets. It is a non-sag material used for sealing of horizontal, vertical & ceiling joints

FEATURES / ADVANTAGES

- Cures at ambient temperatures to a tough, elastic and flexible rubber like material
- Bonds strongly to most of the building materials with the use of recommended primers.
- Durable, remains unaffected by UV rays, ozone and weathering conditions.
- Resistant to water, salt water, 10% dil. acids except nitric acids, alkalis, most of the common chemicals, vegetable, lubricating oils and fuels
- Performs well in a temperature ranging from -20°C to 80°C
- Slip resistant (sag) can be applied in horizontal joints
- Movement capability - Provides satisfactory hermetic sealing of the joint subjected to expansion, contraction, vibration and cyclic movement within the following limits. Movement joints up to $\pm 25\%$ of the width
- Slip resistant (non - sag) can be applied in vertical & ceiling joints
- Self levelling, after pouring in horizontal joint levels itself
- Resilient. Recovers the original width after expansion & contraction without losing the surface bond
- Excellent reparability property

APPLICATIONS

- Sealing of expansion, contraction & construction joints in building structures such as, basements, subways, retaining walls, floors, external walls and claddings of high rise buildings, roof terraces & ceilings especially structural expansion joints running through the ceiling
- Sealing of dynamic structural cracks
- Glazing joints of window, door frame and curtain walls
- Joints and 'J' bolts of asbestos sheet roofing
- Sealing of water retaining structure joints such as, water tank, reservoir, dams, aqueducts, canals, culverts and water treatment plant.
- Sealing of joints in traffic areas such as, bridges, roads and car parking areas

TECHNICAL INFORMATION

Nature	Two Component
Mixing Ratio	Base : Accelerator
Consistency After Mixing	Thick, non-sag paste
Application Time (Pot Life) at 30°C	2 - 3 Hours
Complete Curing Time	At 5°C : 8 weeks At 15°C : 4 weeks At 25°C : 2 weeks At 35°C : 1 week
Colour - Base compound	Off White
Accelerator (Curing Compound)	Dark brown to black
Mix Compound	Grey
Sag Resistance	No Sagging

JOINT DESIGN

In building structures various (different) types of joints are designed such as Butt joints, Lap joints, Fillets Joints, Expansion joints, Control joints and Glazing joints. As the joint expands, contracts or experiences a shear movement, cyclic

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movements, sealant changes the shape accordingly, but the volume of sealant remains same. Hence, in designing the joints, it is vital that the proper width-to-depth ratio is specified so that the width of the joint is consistent with the capability of the sealant to endure daily and seasonal cycles for prolonged periods. The amount of movement in a joint is dependent on the length (span), the coefficient of linear expansion of a panel section and the temperature differential of the substrate. To achieve the long-term, effective performance the established width-to-depth ratios are determined and are given below:

1. Surface preparation is the most important step

Joint Width	Depth Of Sealant in Joint	
	Concrete & Mansonry	Metal And Glass
1/4" to 1/2" 6.4 mm to 12.5 mm	1/4" minimim 6.4 mm	1/4" minimim 6.4 mm
1/2" to 1" 12.5 mm to 25.4 mm	Width / 2	Width / 2
Over 1" 25.4 mm & Above	1/2" maximum W/2	1/2" maximum W/2

before application of sealant to get best results and to avoid failure.

2. The joint surface must be dry, free from dust, coatings, bituminous mastics, concrete curing agents, mould release agents, oils, greases and loose particles.

3. Clean the joint surface by wire brush and sanding with emery paper.

4. Remove dust by compressed air or paint brush.

5. Wipe out oil and grease by solvent soaked cloth (such as Xylene, Toluene or Acetone)

BACK UP MATERIALS

Insert compressible polyethylene, polyurethane, neoprene, polyethylene butyl rod as backup material to control depth of sealant in the joint

and to provide support for tooling of the sealant

MIXING

The base and accelerator compounds are packed in pre-weighed quantity as per the mixing ratio. After the application of primer, mix the material of individual container. Transfer entire quantity of accelerator to the base compound tin and mix it thoroughly to a uniform, homogenous black colour. Mixing can be done manually with spatula, palette knife or special flat stirrer attached to a low speed electric mixer less than 500 r.p.m.

APPLICATION

Apply the mixed gun grade compound by means of a spatula or by filling into a plastic cartridge which is then placed into the hand held caulking gun into the joint.

TOOLING AND FINISHING

It is desirable that a smooth surface is obtained. Tool the sealant by pressing the puffy knife or flat tool against the sealant surface, moving along the length of the joint. Tooling breaks air bubbles and exposes any air pockets present. Tooling compresses the sealant, thus promoting adhesion to the joint sides. After tooling the masking tape should be removed immediately. Soap solution can be used to smoothen the sealant surface.

COVERAGE

Sealant : To estimate the no. of running meter work done in 1 kg of ROCKSEAL required to seal the join can be very easily estimated by using the following formula:

$$L = 650 / (W \times D)$$

Where L = Length of the joint in linear running meter

W = Width of the joint in mm

D = Depth of joint in mm

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CLEANING OF TOOLS AND EQUIPMENTS

Tools and equipment can be easily cleaned with solvent such as xylene, toluene, methyl, ethyl, ketone and acetone.

STORAGE AND SHELF LIFE

Store the material at cool and dry place (at 25°C Temperature and 50% RH)

Shelf life is 12 months in unopened container

PACKING

1Kg, 3Kg and 4Kg

SPECIFICATION COMPILES

- BS 4254-1983 : British Standard Specification
- IS12118 : Bureau of Indian Standards (BIS)
- DIN-18549 : German Standard Specification.

PRECAUTIONS

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Reseal containers after use. Use in well ventilated areas and avoid inhalation.

DISCLAIMER

The above information and details herein are based on the tests conducted & experience on application and usage. The user is advised to carry out the test and take trials to satisfy on the suitability of the products and meeting his requirement considering the prevailing conditions prior to apply/ using it on larger area. As the conditions under which the products are used or transported are beyond our control. We would not hold ourselves responsible on its consequential nonperformance.



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