



PRODUCT DESCRIPTION

ZURASEAL PG is a two component polysulphide sealant that cures chemically to form a durable, flexible, watertight seal capable of accommodating dynamic joint movements. It is available in two forms: Gun Grade (GG) and Pouring Grade (PG).

USES

ZURASEAL PG is used to seal movement joints, expansion joints, isolation joints, construction joints, perimeter gaps in buildings and civil engineering structures. Typical areas of applications include parking decks, plazas, high rise buildings and malls, driveways, factory and warehouse floors, fuel storage areas, basements, reservoirs, subways, etc.

ADVANTAGES

- ▶ Elastomeric, reduces stress on the bond line
- ▶ Excellent adhesion to substrates
- ▶ Meets requirements of most international standards
- ▶ Good ageing resistance, excellent chemical and weathering resistance
- ▶ Can accommodate continuous and cyclic movement

STANDARD

ASTM C920-87 Type M, Grade P (pouring grade) and NS (gun grade), Class 25, BS: 4254:1983
IS:12118 (Part 1& 2) - 1987 (Reaffirmed 2002)

Typical Properties at 25°C

Property	Test Method	Value	
Component	-	Gun Grade (GG) Two: Part A-Base Part B - Hardener Supplied in single container	Pouring Grade (PG) Two: Part A-Base Part B - Hardener
Mixed Form	-	Thixotropic Paste	Pourable Paste
Colour	-	Grey	Grey
Specific Gravity	-	1.60 - 1.69 kg/L	1.69 - 1.73 kg/L
Shore A Hardness	ASTM C661	25 ± 3	20 ± 3
Application Life @ 20°C	-	60 Minutes ± 10	40 Minutes ± 10
Tack Free Time	-	5 Hrs	2-3 Hrs
Full Cure	-	7 Days	
Solid Content	-	100%	
Staining	ASTM C 510	Non Staining	
Movement Accommodation Factor	ASTM C 719	±25%	± 25%
Service Temperature	-	-15° C to +80° C	
Chemical Resistance	ASTM D 543	Resistance to various chemicals like mild acids, alkalis, fuels, grease, petrol, etc	

PROPERTIES

Joint Preparation

Joint surface must be clean, dry, free of dust, grease, curing compounds, etc. New concrete joints must be dry and at least 3 weeks old. In case of old joints, traces of previous sealant and other contaminants should be removed by mechanical means to ensure a clean surface. Insert firmly closed cell polyethylene backer rods in the joints. Backer Rods are recommended because of their superior support to sealant. The diameter of the backer rod should be approximately 20-25% larger than the width of the joint. Generally the joint depth should be equal to or half of its joint width (W:D = 2:1 or 1:1). At weak edges the joint should be strengthened by dressing with epoxy mortar maintaining joint size proportions.

Priming

Joint surfaces should be primed before application of sealant. Joints must be completely dry before applying the primer. Brush apply primer only to vertical surfaces of joint. Excessive application and puddling of primer should be avoided.

Mixing

Add entire quantity of Part B to Part A (in case of Pouring Grade) and mix thoroughly using slow speed drill with paddle.

In case of Gun grade, both the components are supplied in the same container. Mix contents of the container well, till uniform consistency is achieved.

ZURASEAL PG/GG

Pour/Gun Grade, Polysulphide Based Joint Sealants

Application

For Pouring Grade (PG): Pour the mixed ZURASEAL PG into the prepared joint in a continuous operation. Agitate the pored sealant to allow entrapped air to escape.

For Gun Grade (GG): Load the mixed ZURASEAL PG (GG) into the cartridge. Apply by using a professional caulking gun. Apply sealant in a continuous operation using positive pressure from the bottom of the joint to properly fill and seal the joint.

Ensure that sealant adheres to parallel sides of joint and not to the base, avoiding three point contact. Use a concave profile tool to finish the sealant before the skin forms. Once mixed, it is recommended to use the entire contents in single application.

Note: It is recommended that Sealant application is done when the joint is widest i.e., avoid application during noon in summer as the joint contracts.

COVERAGE

General guideline for Gun grade Polysulphide sealant material consumption.

Joint Size (W:D) in mm	Running mtr / Pack of 4kg
10 x 10	24.0
25 x 15	6.40

Estimation of Sealant Consumption

$$\text{Volume of Sealant (In Ltr)} = \frac{(\text{Joint Size X 1 Mtr})}{1000} \\ = \frac{W(\text{mm}) \times D(\text{mm}) \times 1 \text{ Mtr}}{1000}$$

$$\text{Running Meter / 4 kg pack} = \frac{2.4 \text{ Ltr (approx.)}}{\text{Volume of Sealant (In Ltr)}}$$

Primer Coverage

Typical coverage of a 250 gms primer is 20-25 cm for standard 20 x12 mm joint.

PACKAGING

Sealant

Gun Grade : 4kg set
Pouring Grade : 4kg set

Primer

Primer : 250 gms Bottle

LIMITATION

Not recommended for use in direct contact with materials containing pitch or bitumen. Not recommended for use in highly chlorinated water.

ZURASEAL PG pouring grade can not be used for vertical joints due to its consistency.

SHELF LIFE

12 months from date of manufacture, if stored properly in original unopened packing under warehouse conditions. Extreme temperature / humidity may reduce shelf life.

CLEANING

Clean all equipment and tools with Solvent.

HEALTH & SAFETY

PPE's: Gloves, goggles and suitable mask must be worn.

Precautions: Contact with skin, eyes, etc. must be avoided.

Hazard: Regarded as nonhazardous for transportation.

Disposal: Do not reuse containers. To be disposed off as per local rules and regulations.

Important: It is the Customer's responsibility to satisfy themselves by checking with the Company whether the information is still current at the time of use. The customer must be satisfied that the product is suitable for the use intended. All products comply with the properties shown on current Technical Literatures. However, **Prozura Construction Chemicals Pvt. Ltd.** does not warranty or guarantee the installation of the products as it does not have any control over installation or end use of the product. All information and particularly the recommendation relating to application and end use are given in good faith.



Prozura Construction Chemicals Pvt. Ltd.

First Floor, Hague Building, 9 Sprott Road, Ballard Estate, Fort, Mumbai-400 001, (MH)

+91 91520 94840 | info@prozura.com | www.prozura.com