



HIND SEALANT PU-PG (2K)

PRODUCT DATA SHEET

TWO COMPONENT POURING GRADE POLYURETHANE SEALANT

DESCRIPTION

Hind Sealant PU-PG (2K) is a modified two component polyurethane sealant when gets cured forms a durable, flexible, watertight bond with most of the building material and is capable to accommodate dynamic joint movement. It conforms to **BS 5212-1990** and **US Federal Specification SS-S 200 E**.

USES

Hind Sealant PU-PG (2K) is used for the sealing of Expansion joints in industrial, commercial/residential buildings, joints in water retaining structures like water tank, swimming pool, aqueducts, dams, canals, reservoirs, docks, harbors, movement joints in concrete roads, bridges, subways, flyover, Airport runways, Nuclear Power station reactor domes, hard standings, joints in concrete pipe lines, roof skylight joints and window sealing air-conditioned coaches.

ADVANTAGES

- High movement accommodation.
- Cold applied hence heating not required.
- Excellent workability and easy to use.
- High performance.
- Resistance to fuel, oil and hydraulic fluid.

APPLICATION

Surface Preparation

It has to be ensured that all joints to be treated are completely dry, free from dust, foreign material, oil, grease and if any previous sealant applied to be removed. The joints to be thoroughly wire brushed by hand or machine, grit blasted or grinding. All joint to be sealed should be straight and parallel for better sealing. Insert bond breaker/back up material (Polyethylene blocks) to maintain correct cross section for joint sealant and bonding of the sealant to the base of the joint is to be prevented.

Mixing

The entire pre-weighed quantity of Base & Accelerator compounds supplied to be mixed thoroughly to a homogenous and uniform grey colour either manually with spatula or using a flat stirrer fitted to a slow speed electric mixer of less than **500 rpm**.

Application of material

The joint to be primed with **Hind Sealant Primer** using a flat brush and seal the joint with the mixed material after 30 minutes when the primed joint becomes tacky. The sealant should not be applied into joints which is more than 50mm wide and ensure that the depth does not exceed the size of the width using back up material to adjust the depth.

Joint Size

Hind Sealant PU-PG (2K) can accommodate large continual cyclic movement, therefore joint spacing shall be taken into consideration for optimum performance. Width of the joints is depended on the spacing between the joints and designed to ensure total movement which does not exceed MAF 25% in area subjected to traffic, a maximum joint width of 30 mm is recommended, with a recess of 5mm below flush. It is advised that sealant depth should not exceed joint width. A **width: depth ratio of 1:1 to 1.5: 1** subject to a minimum **10 mm depth** of sealant is recommended.

Curing Time

Pot Life approximately is 2-3 hours at 23⁰ C. However, the application time and rate of cure is depended upon temperature of the sealant and ambient temperature during the time of application. Higher temperatures will shorten the curing time. Final curing takes two (2) days at 25⁰ C time but the sealant applied joint gets trafficable with 24 hours of application. Low temperatures retard the cure time of the sealant. It is advisable that the sealant should not be applied when the temperature prevailing is less than 5⁰ C.

PROPERTIES

| | |
|---|-------------------------------------|
| Aspect/Form | Viscous grey liquid |
| Colour | Grey Resin with colourless Hardener |
| Solid Content % by mass | 96 ± 2 |
| Mixing Ratio | 3.2 : 0.8 |
| Pot Life at 25 ⁰ C | 40 minutes |
| Specific Gravity at 25 ⁰ C | 1.48 ± 0.5 |
| Hardness Shore A at 25 ⁰ C | 15 ± 2 |
| Tack free Setting time at 35 ⁰ C | 16 to 24 hours |
| Theoretical Coverage gm/R.mtr | 130 gm for 6.0 mm X 12.0 mm |
| Butt Joints % | 25 |
| Elongation % | >300 |
| Application Temperature ⁰ C | Min >5 , Maxi < 40 |

Joint Guide

| Joint Size | 10 x 10 | 13 x 13 | 15 x 15 | 20 x 15 | 20 x 20 | 25 x 20 | 25 x 25 | 30 X 25 |
|------------|---------|---------|---------|---------|---------|---------|---------|---------|
| L/R.Mtr | 0.100 | 0.169 | 0.225 | 0.300 | 0.400 | 0.500 | 0.625 | 0.750 |

SHELF LIFE

Best before 12 months from the date of manufacture in unopened condition. Keep in cool and dry place away from direct sunlight in a well-ventilated room at a maximum temperature of 25⁰ C.

PACKING

Available in 4 Kg Container.

HANDLING PRECAUTIONS

Hind Sealant PU-PG (2K) is non-toxic. If contact with skin occurs must be cleaned with suitable solvents. If contact with eyes occurs, wash well immediately with water and seek medical advice.

Note:

- **Hindcon Chemicals** maintains a team of technically trained professionals to provide full support to your problems in construction, and recommend the correct product to suite your specific requirements. Our authorized applicators can attend your site for application of the products.
- The content of the Technical datasheet are for general information and guideline. The result shown here are generated from our laboratory or from our site experiences.
- Quality of our products are maintained as per **ISO9001:20015** recommendations and continuous researches. The behavior can change as per the prevailing conditions at the time of applications.
- Since **HINDCON CHEMICALS LIMITED** has no control over the use to which the users may put the material, it does not claim or warrant that in the user's particular circumstances, the result that the user will obtain from the product will be the same as those described in this communication or that the user will find the information or recommendations complete, accurate or useful. The client must test and ascertain the safety and fitness for the product for use.
- The right to change the properties of the products is reserved with us. The proprietary rights of third parties must be observed. All orders are accepted subject to the terms of sale and delivery. Users must always refer to the most recent issue of the latest Data Sheet for the product concerned, copies of which will be supplied on request.

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