



# HIND SEALANT PU

## PRODUCT DATA SHEET

### SINGLE COMPONENT POLYURETHANE SEALANT

#### DESCRIPTION

**Hind Sealant PU** is single component, moisture cured polyurethane sealant exclusively formulated for use in various construction application for outdoor environment. It conforms to **ASTM C920, Type S, Class 25 & ISO 11600, Type F Class 25HM/20LM** .

#### USES

**Hind Sealant PU** is used both horizontal & vertical expansion joints in all type of building and civil engineering construction such as:

- Retaining wall.
- Doors and Windows.
- Precast Concrete Element.
- Underpasses and Tunnels
- Bridges
- High and Low Rise building and wherever a permanently flexible seal is required.
- Submerged Applications.

#### ADVANTAGES

- Economical, Ready to use and fast curing.
- Non-Staining.
- Excellent adhesion to many substrate.
- Non-sag in vertical and overhead joints.
- Movement capacity  $\pm 25\%$
- Good chemical resistance and high tear resistance.
- Excellent weather resistance

#### APPLICATION

**Surface Preparation:** All surfaces must be clean, dry and free oil, grease and loose particles. Correct joint depth can be determined by inserting compressible board tightly into the joint. Protect surface with a masking tape.

Flat, Soft or Round Polyethylene backing material should be used for controlling the depth so that sealant is filled as per the specification.

**Priming:** In most cases high bond strengths can be obtained without use of primer. Prior to application, adhesion testing is recommended to determine the requirement of primer. Contact our technical division for exact type of primer recommendations.

**Application:** Preparation of the joint and substrate are to be done at first and then backing rod is inserted into the joint to maintain the required depth. After making a 1" slit near to the crimp at one end of the sausage pack, it is loaded into the applicator barrel (the slit should be out) . The rounded end of the sausage nozzle is placed onto the slit end of the sausage pack and fitted with a retaining ring. The nozzle is now cut as per desired size and shape and is dispensed with the nozzle tip in contact with the substrate for proper gap filling. The entire material to be used within 24 hours from the time it is cut off. The bonding of the sealant should occur within the first 50% of the skin time. **Hind Sealant PU** should not be applied over frozen or wet surfaces. Should not be applied over silicone or hybrid products and every care to be taken so that it does not come into contact with alcohol and solvents during curing. Sealant can be tooled off immediately after application to give the desired appearance.

**Joint Design:**

Minimum joint depth = 10 mm  
 Maximum joint width = 100 mm (Back up Rod to be used)

**PROPERTIES**

Aspect	Grey/White/Black Colour Paste
Base	Single Component Polyurethane
Density	1.3Kg/Ltr at 30 <sup>0</sup> C
Rate of Curing	~ 3mm /24 hours (> 23 <sup>0</sup> C /50% Relative Humidity)
Tack-Free Time (ASTM C 679)	60 minutes
Movement Accommodation	± 25 % of the width
Sag Flow	0 mm, very good
Tear Strength	Minimum 0.3 N./ mm <sup>2</sup>
Shore "A" Hardness (ASTM C661)	30- 35
Elongation at Break	>600%
Full Cure	7 days
Width to Depth ratio	Width 2:1 depth.
Temperature Range	From 5 <sup>o</sup> C to 80 <sup>o</sup> C
Weather Resistance	Excellent

**SHELF LIFE**

12 months from the date of manufacture in unopened condition. Keep in cool and dry place away from direct sunlight between 10<sup>0</sup> C to 25<sup>0</sup> C.

**PACKING**

600 ml & 310 ml sausages.

**HANDLING PRECAUTIONS**

**Hind Sealant PU** 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 ISO9001:2008 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.

**HINDCON CHEMICALS LIMITED**

(AN ISO 9001: 2015 COMPANY)

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