



HIND HYDRAFOAM PU (2K)

PRODUCT DATA SHEET

POLYURETHANE FOAM RESIN FOR STOPPING WATER FLOW INTO CONCRETE WALLS, SLABS, LEAKY CRACKS, HONEY COMB & CONSTRUCTION JOINTS

DESCRIPTION

Hind Hydrafoam PU (2K) is a two part solvent free polyurethane injection resin specially manufactured for rapid stopping water leakages and also used for ground consolidation. On mixing both the components a tough, rigid, chemical resistant and highly hydrophobic polyurethane foam is formed.

USES

Hind Hydrafoam PU (2K) injection is used for cracks in concrete to stop the flow of moving water. It will provide an effective system for cracks sealing in wet conditions. It is a complete system for water cut off in concrete, masonry structures where strong leaks are encountered. The system only reacts when it comes into contact with water, providing semi-flexible polyurethane foam, thus providing permanent solutions to the leaking problems. It can be used for foundation stabilization, void filling & repair of Concrete Structures.

ADVANTAGES

- Reacts with water to produce water resistant foam to stop water ingress into concrete and masonry structure.
- Rapid instant action to produce water stop against moving water under pressure.
- Solvent Free & environment friendly.
- Highly Hydrophobic.
- High Foam Strength, medium viscosity and good bond strength.
- Without the presence of water the mixed product reacts to form hard foam. This is an important safety advantage that the material never remains uncured.

PROPERTIES

| Hind Hydrafoam PU (2K) (Part A) | |
|--|---------------------|
| Aspect & Colour | Light Yellow Liquid |
| Density (gm/cm ³) @25°C | 1.02 ± 0.050 |
| Viscosity @ 20° C (Brookfield DVII spindle No.2 at 30 r. p. m) | 500 -700 M pas |
| Hind Hydrafoam PU (2K) (Part B) | |
| Aspect & Colour | Liquid Brown |
| Density (gm/cm ³) @25°C | 1.23 ± 0.020 |
| Viscosity @ 20° C (Brookfield DVII spindle No.2 at 60 r. p. m) | 200 -400 M pas |
| After Mixing by Volume 1:1 Hind Hydrafoam PU (2K) (Part A + Part B) | |
| Aspect & Colour | Liquid Brown |
| Elongation at Break | 3-4% |
| Expansion | Up to 20 times |
| Compressive Strength in confined condition | 80 MPa |
| Compressive Strength (Free Foam) | 2 MPa |
| Slant Shear Bond Strength (BS6319-4) | 13 MPa |
| Final Cure | 1 Day |

Method of Application

Hind Hydrafoam PU (2K) - Part A & Part B are supplied for ready to use. The product is injected in the proportion of 1:1 by volume using a two component injection pump equipped with a static in –line mixer to achieve proper mixing of the two components during injection.

After injection, the pump must be thoroughly cleaned by PU cleaner. Curing of the material is dependent on the temperature of material, substrate, rock and ground water. The material should be conditioned to an appropriate temperature (above 15^o C) prior to its application. Care should always be taken that during application the temperature should not come down to 10^o C as because there is always a possibility of crystallization of the material.

Testing of **Hind Hydrafoam PU** - All tests are carried out using 1:1 mix ratio by volume.

| Reaction Times | 15 ^o C | 20 ^o C | 30 ^o C |
|----------------|-------------------|-------------------|-------------------|
| Cream Time | <45 sec | <25 sec | <18 sec |
| Gel Time | <160 sec | <120 sec | <95 sec |
| Tack free Time | < 180 sec | < 150 sec | < 120 sec |

Note : The above data are based on tests carried out under laboratory conditions.

SHELF LIFE

12 months from the date of manufacture, if stored in airtight containers at room temperature (10^o C to 38^o C) in a cool & dry place. The product must be prevented from f at 25^oC away from heat and direct sunlight. in unopened containers.

PACKING

Hind Hydrafoam PU (2K) is supplied in **Pack A - 20 Kg & Pack B -25 Kg (Total 45 Kg) HDPE Container.**

Other pack size can be made available as per requirement.

HANDLING PRECAUTIONS

Hind Hydrafoam PU (2K) contains isocyanate which may cause sensitization by inhalation. During use avoid contact with skin and eyes and inhalation of vapor. Wear suitable protective clothing, gloves and eye/face protection. Should accidental skin contact occur, remove immediately with a resin removing cream followed by soap and water. Do not use solvent. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed seek medical attention immediately do not induce vomiting. Use only in well ventilated areas. In cases of insufficient ventilation wear suitable respiratory protective clothing.

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.

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