



HIND HYDRAFOAM PU (2K)

PRODUCT DATA SHEET

TWO COMPONENT POLYURETHANE RESIN

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. It is slow reacting and hardens to a non-foaming, non-rigid, pore free material which slightly foams when put into contact with water. It bonds to both dry and moist surface and offers an excellent adhesion and is tear resistance. **Hind Hydrafoam PU (2K)** has a low glass transition temperature and resists to winter temperatures without causing embrittlement and widening of cracks due to low temperatures without tearing.

USES

Hind Hydrafoam PU (2K) is used for the close, waterproofing and elastic connection of cracks, joints and cavities in construction made of concrete, natural stone or bricks. It is suitable for the waterproofing of car parks, concrete tanks, tunnel linings, construction joints, furthermore, for the waterproofing injection using injection hoses. Due to its mix ratio of 1.7 : 1 kg by weight it can be injected via packers or embedded injection hoses.

The procedure is as follows:

- Pump off the remaining injection material out of the injection unit
- Clean the injection pump, the top container and the tubes for 5 to 10 minutes with cleaning agent.
- Afterwards pump the cleaning mixture into a container and rinse again with cleaning agent.
- In case of longer resting times the pump, the top container and the tubes have to be filled with the flushing oil.
- Before the injection unit is used again the oil has to be removed.

ADVANTAGES

- Non foaming & non rigid.
- Excellent adhesion, bonds to even dry surface.
- Permanently elastic, can absorb limited movements
- Solvent Free & environment friendly.
- No shrinkage in subsequent dry conditions.
- Due to its low viscosity it can penetrate into cracks >0.2 mm in width.
- Can be injected as a one component system.

PROPERTIES

Aspect & Colour	Polyurethane Resin, Light Yellow Liquid
Density	Comp A- 1.050 ± 15 g/ml at +23°C Comp B - 1.122 ± 15 g/ml at +23°C
Mix Ratio	1.7: 1 Kg by weight
Mix Viscosity at +25°C	190 ± 50 Mpa. S
Processing Time at +25°C	25 - 35 minutes
Processing Temperature	Between 12 - 40°C
Gelling Time / Hardening Time	13.0 ± 1.0 h @ + 25°C
Shore A Hardness	60-70
Tensile Strength (ASTM D 623)	Approx. 2 Mpa
Elongation (ASTM D 623)	60 - 80 %

Method of Application

Component A (BASE) and **Component B (HARDENER)** are supplied in premeasured ratio. **Component - B** is added to **Component - A**. The hardener has to be completely emptied into the **Component -A**. Both the Component are mixed with a mixer at **300 rpm (for example drilling machine with mixer)**. It is important that the mixture is also stirred thoroughly from the walls and the bottom. It is mixed until a homogenous mass is achieved; the two components are to be mixed quickly.

Processing Tools:

Hand lever press, foot lever press, 1 component pump (Airless or piston pump) or 2-component pump (working with the 2-component pump requires the use of the metal special mixer when correct product quality is to be guaranteed).

Cleaning Tools:

The tools have to be cleaned properly immediately after use. They are to be cleaned thoroughly with the cleaning agent After work has finished or in cases of longer interruptions the injection equipment is to be cleaned. Material must not dry out in the equipment and plug up vital machine components. The cleaning resp. solvent agent has to have a flash point exceeding +21°C.

CONSUMPTION

Generally, the mixed injection resin is injected via boreholes and packers into the cracks to be waterproofed, until the material comes out of the control holes.

Example:

- Existing cracks (crack width approx. 0.2 mm) have to be bored in a distance of approx. 20 to 30 cm.
- The boreholes have to be cleaned with oil free pressure air from the dust.
- Place the injection packers.
- If width is approx. 15cm, **consumption is approx. 300 g/m²**.

SHELF LIFE

Best before **12 months** in closed original packs and to be stored in a cool and dry place at temperature ranging between **10° C - 30°C**.

PACKING

Hind Hydrafoam PU (2K) is supplied in packs of **5 Kg. (BASE - 3.15 Kg : HARDENER - 1.85 Kg)**

HANDLING PRECAUTIONS

Hind Hydrafoam PU (2K) is non-toxic and non-flammable in nature. However, normal safety gadgets like goggles, gloves should be used while handling the material. Avoid breathing of vapors, when it contacts with skin, should be cleaned immediately. Seek medical advice in case of contact with eyes.

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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