INJECTION

VALPLAST® PUS

Product Description

This is a two-component urea silicate foam, which is highly reactive. It is much recommended for cavity fillings.

Characteristics / Advantages

- Good adhesion to wet surfaces
- User friendly
- Low smell
- Environment friendly
- Chemical Stability is good
- Suitable for spray as well
- Highly reactive. Can be used where foaming speed, flexibility and flame retardant properties are required

It neither expands nor absorbs water after mixing components. Suitable for

- Filling cavities in concrete and strata.
- For consolidation of fractured rock, sands gravel sand.
- For stabilization of cavities in tunnels.

Technical Parameters

Properties	Comp. A	Comp. B
Color	Clear, colourless	Dark Brown
Viscosity mPa.s at 25°C	20 - 80	150 - 400
Flash Point	> 200°C	> 200°C
Density Kg/m^3 at 25°C	1350-1500	1150-1300

**Values can vary site due to heat exchange between resin and structure. Lab Based values*

How it Works?

- Both components come in pre packed drums.
- Both components are injected in a 1:1 ratio by volume using a two-component injection pump.
- In the pump static mixer combines both components and injects them into the structure (rock/mountain) side through an infusion seal.
- The curing reaction time is significantly dependent on the temperature of the PU resin, the rock and the ground water. Foam factor is significantly dependent on water content.

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- in component A. Density range also depends on water content incomponent A and isocyanate reactive groups in component B.
- To achieve the best mixing of the components during injection, the inclusion of a static in-line mixer in connection with the mixing head is essential. The length of the static mixer should be min. 50 cm long for correct mixing.
- Store the products before processing at a minimum temperature of 15°C for at least12 hours as the recommended processing temperature is between 15°C and 30°C.

Reaction data: A:B 1:1 by volume	
Reaction Start Time	10 - 30 s and 50 s for tack free
Foam Factor	20 – 25 times

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Storage

Store away from frost and heat in a dry area. Storage temperature is between 5°C and 35°C. Shelf Life – 1 Year approx. In case the product has cooled down to low temperatures, it should be reheated to a minimum of 15°C before using it.

Safety

Avoid to breath dust/fume/gas/mist/vapours/spray. If required, wear respiratory protection. Always wear protective gloves/clothing and eye/face protection.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, If on skin or hair: Remove all contaminated clothing immediately. Rinse skin with water or takeshower.

Legal Notes