

# CYH 500

Single Component Hydrophobic type PU



## Description

CYH-500 is a hydrophobic grout based on polyurethane.

Upon contact with water, CYH-500 reacts to closed cell rubber-like foam while expanding its volume up to 27 times. The cured material is of a constant volume. Since water is not a component of the foam structure, the cured material is essentially not affected by water or dryness. The reacted material does not shrink or swell. Depending on the pressure of injection, CYH-500 reacts to a very dense material or foam.



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## Uses

Areas of application include:

- Defective concrete (cracked or honeycombed)
- Concrete joints, Limestone, Brick construction
- Pipe intrusions, Waste water tanks
- Tunnels, Dams, Subway(Metro), Sewers, Manholes, Utility boxes, etc.
- Soil stabilization

## Advantages

- Negative side application possible
- Deep penetration into very small cracks
- Foam increases in volume to fill cavities and voids
- Excellent bond to surfaces
- Good adhesive strength, tolerant of movement
- Inert after curing, constant volume, no shrinkage
- Dose not create new cracks

## Technical & Physical Data

Form	Liquid Type
Color	Dark Brown
Solubility in Water	Hydrophobic
Density (g/ml)	1.12
Viscosity (KS F 4923)	100-200 mPa·s
Max. Expansion (25°C)	2,700 % [Ratio 10:1 Resin : Water]
Induction Time (25°C)	15 sec [Ratio 2:1 Resin : Water]
Gel Time (25°C)	110 sec [Ratio 2:1 Resin : Water]
Tensile shear strength(23°C), (KS M 3705)	4 N/mm <sup>2</sup>
Appearance	Light yellow Polyurethane Foam
Corrosiveness	Non-Corrosive
Chemical Resistance	Resistant to more organic Solvent, Mild Acids, Alkali
Shelf Life	1 year when unopened and undamaged
Storage Condition	Store in a dry cool place
Packaging	20 kg/pail

## Important Notes

- Minimum ambient and substrate temperature is 5°C.
- Material shall be store in a dry cool place.
- Good storage stability for unopened containers at 15°C~30°C

