

Description

Galaxie PU Cut is a single-shot hydrophobic polyurethane based on MDI in combination with polyether polyols and an amine-based catalyst. The system only reacts when it comes into contact with moisture, producing a high expansion rate rigid polyurethane.



Benefits

- High expansion ratio > 20 times
- Low viscosity Solvent-free,
- Environmentally friendly
- Reacts with saline and mineral water
- Good chemical resistance

General Application

- Sealing of high waterflow leaks
- Rapid sealing of leaks in concrete/shotcrete
- Light weight filling of voids
- Water cut off barriers
- Injection into saturated ground

Application Guidelines

Galaxie PU Cut is a complete system for water cut off in concrete, masonry structures and sandy soils even when strong leaks are encountered. Adaptable reaction time is possible by varying the catalyst ratio from 2% to 10%. Reaction with the water results in the formation of a rigid polyurethane foam, which is hydrophobic and chemically resistant. On certain injections it is advisable to give a second pass using Galaxie PU SF / Galaxie PU FlexGel to provide a flexible seal. The reaction time can be adjusted from 10 minutes to 30 seconds. See table of reaction times. Depending on the velocity of the running water or the amount of water expected in a crack, the reaction time should be fixed before injection. Mix the resin using a dry clean drill and paddle mixer for a minimum of 15 sec before application. The pre-mixed resin can be pumped by means of a single component injection pump that is equipped for high pressure and low volume or for large water leaks with high volume and low pressure.

Note: Always make sure that the material is homogeneous. Shake well before use.

Technical Data

GALAXIE PU Cut	
Appearance	Brown Liquid
Viscosity	150-250 Cps
Density	1.1
Flash point	>150°C

GALAXIE PU CutCat	
Appearance	Yellowish Liquid
Viscosity	25-45 Cps
Density	0.98
Flash point	>140°C

GALAXIE PU Cut Reaction Times		
100gm sample with 10% water added		
CutCat addition	Cream Time	Rise Time
1.0%	80 Seconds	7 Minutes
2.0%	50 Seconds	4 Minutes
10%	20 Seconds	60 Seconds

All technical data stated herein is based on tests carried out under laboratory conditions at 25°C

Packaging

Galaxie PU Cut is supplied in 20 KG drums and 200kg drums. Galaxie PU CutCat is supplied in 2kg bottles and 20kg drums. Packaging size may vary subject to local regulations and requirements.

Storage

Galaxie Pu's and Cat's should be stored at room temperature (min 10°C and max 35°C), kept dry and out of direct sunlight. If these conditions are maintained and the product packaging is unopened, then a shelf life of 1 year can be expected.

Health & Safety

Galaxie PU Cut and Galaxie PU CutCat should only be used as directed. We always recommend that the Safety Data Sheet is carefully read prior to application of the material. Our recommendations for protective equipment should be strictly adhered to for your personal protection. Please contact Galaxie or your local representative for the current SDS.

