GeoTek HS

Two-Component Polyurethane Grout

CONSTRUCTION CHEMICALS

TECHNICAL DATA SHEET

DESCRIPTION

GeoTek HS is based on a polyol component (part A) and a polymeric MDI (part B). When mixed, a hydrophobic polyurethane foam is formed which is tough, rigid and resistant to a wide range of chemicals. Controlled expansion and high early strength allows this material to be used effectively for raising sunken slabs and pavements. GeoTek HS is also used widely for underpinning applications where increased soil bearing characteristics are required.

KEY BENEFITS

- Controlled expansion
- High foam strength
- Good bond strength
- Low viscosity
- Solvent-free, environmentally safe

TYPICAL APPLICATIONS

- Slab jacking
- Foundation stabilisation / underpinning
- Soil consolidation

TECHNICAL DATA

GeoTek HS @ 20'C		
	Part A	Part B
Colour	Opaque	Brown
Density (BS EN ISO 2811-1)	1.04 g/cm³	1.23 g/cm³
Viscosity (BS EN ISO 3219-1)	500 cps	350 cps

GeoTek HS Mixed at a ratio of 1:1 @ 20'C	
Colour	Brown
Density	1.1
Reaction speed	120 secs
Final cure	24 hours
Expansion ratio (Without water addition)	Free expansion ratio 12 to 14 x

Low to high expansion grades are available upon request. Slow, medium and fast set grades available upon request.

All technical data stated herein is based on tests carried out under laboratory conditions.

APPLICATION GUIDELINES

GeoTek HS is a dual component material mixed at a ratio of 1:1 by volume. Mix the individual components Part A and Part B separately using a slow speed drill and paddle mixer for approx. 30 seconds.

It is best mixed in a suitable mixing head from a twin piston pump. When the material has cured it forms a rigid polyurethane foam.

The reaction time and foaming will vary depending on temperature and grade of material. Please contact your local Normet representative should you require any further information regarding suitability or application of this product.

Note: It is recommended that the material be conditioned to appropriate temperatures for at least 12 hours prior to application.

Careful consideration should be given to applications below 10°C on a falling thermometer to avoid possible crystallisation.

If significant sized voids and cavities must be filled, we advise using our TamPur 117. TamPur 117 is designed for economic filling of voids and cavities. Void filling should be undertaken in stage/lifts, this will reduce the exothermic heat generated during the reaction stage. Polyurethane grout can't be used as void/cavity filling material. Please contact your local Normet representative first, if void/cavity filling is the planned application.

STORAGE

GeoTek HS should be stored at room temperature (min 10°C and max 38°C), kept dry and out of direct sunlight. If these conditions are maintained and the product packaging is unopened, then a shelf life of one year can be expected.

HEALTH & SAFETY

GeoTek HS should only be used as directed. We always recommend that the Safety Data Sheet (SDS) is carefully read prior to application of the material. Our recommendations for protective equipment should be strictly adhered to for your personal protection. The Safety Data Sheet is available upon request from your local Normet representative.