

GeoPro LV-20

Low Viscosity, Solvent Free,
Ground Engineering Resin

M&T
Global Ltd

Description

GeoPro LV-20 is a single component, solvent free, low viscosity polyurethane resin formulated for injection into soils. It reacts with moisture to form hydrophobic, chemically resistant, rigid polyurethane that binds soil particles, rapidly increasing compressive and shear strength.

Application

- ▶ Underpinning
- ▶ Stabilizing loose soils
- ▶ Water cut off and curtain grouting
- ▶ Erosion control

Advantages

- ▶ Low viscosity
- ▶ Controllable reaction times via catalyst dosing
- ▶ Phthalate free
- ▶ Good chemical and hydrolytic resistance
- ▶ Compatible with common single component Injection pumps

Recommended Application Parameters

Injection pressures: typically, 0.5-7 bar (dependant on soil permeability, grout spread required and pump capability).

Typical soil types: sands, silty sands, gravels, mixed fill. Not recommended for large voids.

Injection temperatures range: 5°C - 30°C recommended. Expect slower reactions at lower temperatures and faster at higher temperatures.

Storage

GeoPro LV-20/Kat should be stored out of sunlight in a dry environment above 5°C and below 30°C. If these conditions are maintained, unopened material will have an expected shelf life of six months from the manufacturing date.

Health & Safety

Read the Safety Data Sheet before use. Only use GeoPro LV-20 as intended. Avoid contact with eyes and skin, do not ingest. Always use the necessary adequate PPE. Safety Data Sheets available on request.

GeoPro LV-20

Density	1.12 ± 1.20g/cm ³
Viscosity	20mPa*S
Flash Point	>150°C
Colour	Brown Liquid

GeoPro LV-20 Kat

Density	0.9 - 1.01g/cm ³
Viscosity	70 ± 10mPa*S
Flash Point	>150°C
Colour	Transparent, slightly yellow

Reaction Information

Catalyst	Start of Reaction(s)	End of Reaction(s)
2%	180	600
3%	120	300
5%	60	180

All tests carried out at 25°C.

Note: GeoPro LV-20 Kat is a liquid catalyst/accelerator formulated to control gel and cure times.

Legal Disclaimer

The information in this data sheet for the polyurethane ground injection resin (GeoPro LV-20) is provided in good faith but without warranty. It is for general guidance only and not a guarantee or specification. Users must test and confirm the Product suitability for their application and follow the Safety Data Sheet(SDS) before use. M&T Global Ltd and its Partners are not liable for any direct or indirect losses, damages, or injuries arising from the use, handling, storage, or disposal of the Product. Suggested use do not imply freedom from patent rights. Contact patent holders for permission as needed.