

Aqua-reactive PU Injection Resin

VPI 620 – Granular Soil / Fine Sands

VPI 620 is a solvent free, one component aqua-reactive polyurethane injection resin. Its principal application is stabilisation of damp to water saturated granular sands.

When 620 comes into contact with water, it reacts to produce an expanding cellular foam with consequential increase in volume from the initial liquid resin. The expansion process increases penetration of the resin into the pores of granular sands where it cures to form a chemically inert conglomerate. The foam is hydrophobic and harmless to the environment. It resists chemical and biological attack. Accelerator is added to VPI620 to vary the speed of reaction for the required application.

Uses

Stabilising granular soils, even below water table level. May be used in fine sands.

Advantages

An extremely efficient injection resin with excellent penetration into voids and pores of even fine granular sands. Produces a conglomerate with medium compressive strengths. 620 is also effective in stabilising running sand.

Application

Injection is by a single component pump through injection pipes (Tube a Manchette, strainer or open ended) as appropriate. The speed of reaction is dependent on percentage of accelerator used and water temperature. Reaction times are set according to the soil types being injected. If water flows through the soil being injected, 620 may be displaced from the injection zone before reaction is complete. Where such conditions are encountered, please contact our technical department.

Package & Storage

VPI 620 is supplied in 20kg drums. Accelerator is supplied in 2kg plastic containers. Store in original containers in a dry area, protect from heat and sunlight. Once opened, use as soon as possible.

Technical Data – Reaction Times (15°C)

<u>% Accel dosage</u>	<u>Induction Time</u>	<u>Gel Time</u>
0.25%	6min 30 sec	100 min
0.50%	5min 30 sec	51 min
1.00%	3min 50 sec	17 min
2.00%	2min 20 sec	10 min
6.00%	1min 30 sec	4 min