

P40 Injection Resin

Aqua-reactive PUR Injection Resin

Stabila P40 is a solvent free, one component aqua-reactive polyurethane injection resin. Its principal application is stabilisation of damp to water saturated granular soils. When P40 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 soils where it cures to form a chemically inert conglomerate. The foam is hydrophobic and harmless to the environment. It resists chemical and biological attack. Stabila P40 Accelerator is added to Stabila P40 resin to vary the speed of reaction for the application in hand.

Uses

Stabilising granular soils, even below water table level. May be used in granular soils as diverse as open gravel to clean running sands.

If water flows through the soil being injected, Stabila P40 may be displaced from the injected zone before reaction is complete. Where such conditions are encountered, please contact our Technical Department.

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.

Advantages

An extremely efficient injection resin with excellent penetration into voids and pores of even fine granular soils.

Produces a conglomerate with good compressive strengths.

Stabila P40 is effective in stabilising clean running sand.

Package & Storage

Stabila P40 is supplied in 20kg drums. P40 accelerator

Health & Safety

Avoid contact with eyes and skin. Follow advice in separate Health & Safety data sheet.

Application

Injection is by a single component pump through injection pipes (Tube à Manchette, strainer or open ended) as appropriate.

Speed of reaction is dependent on percentage of P40 accelerator used and water temperature.

Reaction times are set according to the soil types being injected.

Technical data

	P40	P40 Accelerator
Form	Liquid	Liquid
Colour	Brown	Grey/clear
Viscosity (25°C)	40±10 mPas	10±5 mPas
Specific gravity (20°C)	1.15	0.995
Flashpoint (TOC)	>150°C	>130°C
Mixing ratio	0.1% to 10% Accelerator by weight	
Application temp	Not less than 5°C	

Reaction times (15°C)

% Accel dosage	Induction time	Gel time
0.25% (by weight)	6 min 30 sec	100 min
0.5% "	5 min 30 sec	50 min 45 sec
1% "	3 min 50 sec	17 min
2% "	2 min 20 sec	10 min
6% "	1 min 30 sec	4 min
10% "	50 sec	1 min 10 sec

Compressive strength (injected into sand)

ASTM D4219-93A	12Mpa (1740 psi, 12000 Newtons/m ²)
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