

## Stabila 6805

### *Injection Resin For Ground Stabilisation.*

Stabila 6805 is a very low viscosity single component polyurethane injection resin for stabilising granular soils. When injected through hollow soil nails, it will encapsulate the nail and bind it with the soil to form conglomerate capable of taking substantial loadings.

#### Uses

Stabila 6805 reacts with water in soil forming rigid hydrophobic foam that penetrates pore voids to create a tough, stable conglomerate.

Used for ground stabilisation, It may also be used to restrain water bearing layers in the soil or anchor soil nails in granular soils.

Stabila 6805 can stabilise foundations, consolidate piled walls in buildings, restrain underground water flows, prevent ground loss during excavations and injection of contaminated soils.

#### Advantages

The low viscosity and foam generation when reacting will enable the resin to penetrate deep into granular soils. The cured product is resistant to water, weak acids and bases, most organic solvents and micro-organisms.

#### Application

Stabila 6805 resin is mixed with its 6805 catalyst at ratios appropriate for the job in hand. The mixed product is then injected using a single component pump (manual, electric or pneumatic).

#### Package & Storage

Stabila 6805 has a shelf life of 12 months in undamaged, unopened original containers.

Storage should be in a dry place between 10°C and 30°C.

Stabila 6805 resin is supplied in 200kg or 25kg drums. 6805 catalyst is supplied in 10kg or 2.5kg containers.

#### Health & Safety

Avoid contact with eyes and skin. Wear safety glasses, gloves and overalls. In case of contact with eyes or skin, wash with lots of water. Reacts with water, if contaminated by moisture, may form CO<sub>2</sub> gas pressure in containers. For more information, See material safety data sheet.

#### Technical data

##### Stabila 6805 Resin

Form	Viscous liquid
Viscosity (20°C):	35 mPAS
Colour	Dark Brown
Density:	1,13 kg/l

##### Stabila 6805 Catalyst

Form	Liquid
Viscosity (20°C)	35mPAS
Colour	Light yellow
Density	0,89 kg/l

#### Reaction times (15°C)

Catalyst dosage %	Approximate Polymerisation time
0.5	13'
1	9'30"
1.5	6'
2.5	4'
5	2'

Density: +/- 0.5 kg/dm<sup>3</sup>.

Compression Strength: (EN 12190 after 24h at 20°C) 5.29 N/mm<sup>2</sup>

Bending Strength: (EN 196-1 after 24h at 20°C) 2.41N/mm<sup>2</sup>

When cured under pressure, the compression and bending strength will be higher.

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