

Sodium silicate based hardener for filling, reinforcement and glazing

DESCRIPTION

DRYveil is a sodium silicate-based filling and glazing hardener, specially developed to stabilize and waterproof highly permeable soils. Injection into this type of soil is generally carried out in 2 phases: first a cement grout and then a silicate-based grout with DRYveil.

DRYveil can be used in different situations:

- Tunnels (waterproofing and construction of access wells),
- Foundation (waterproofing),
- All underground works that require pre-treatment of the soil to obtain dry soil with a minimum of cohesion.

ADVANTAGES

Mortars containing DRYveil for the production of soft gels, thanks to their low viscosity, have excellent penetration even in fine soils such as fine sand or silt.

DRYveil is easier to use than other soft gel hardeners available on the market thanks to a wider dosage tolerance.

Depending on the formula and temperature, the setting time of the mortar can be between 10 and 60 minutes.

Dosing DRYveil is simple and the mixture is stable, without separation after mixing.

DRYveil is classified as not dangerous for the environment and is self-classified WGK1.

METHODS OF USE

The mixture can be adjusted based on temperature, setting time, desired performance and the quality of sodium silicate available on site.

For waterproofing the ranges of sodium silicate and DRYveil are respectively between 10 and 30% and between 1 and 3% of the volume.

Drytech is able to determine the best formulation to obtain the required performance taking into account the nature of the sodium silicate, water and soil present on the site.

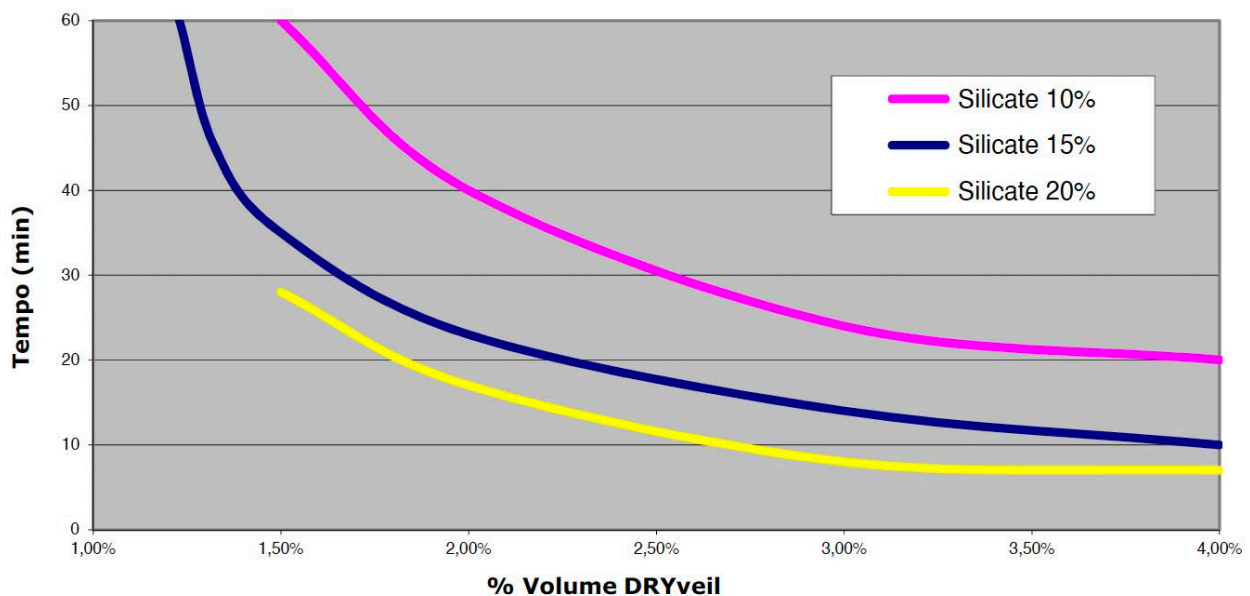


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PHYSICAL PROPERTIES

Appearance	Colorless to yellowish
Odor	Fruity
Density	1.27
Dynamic viscosity at 20° C	2.8 mPa.s
Fusion point	N. A.
Flash point	129 °C
(DIN 51758)	Si
Sensitive to frost	

Setting time depending on the content of DRYveil

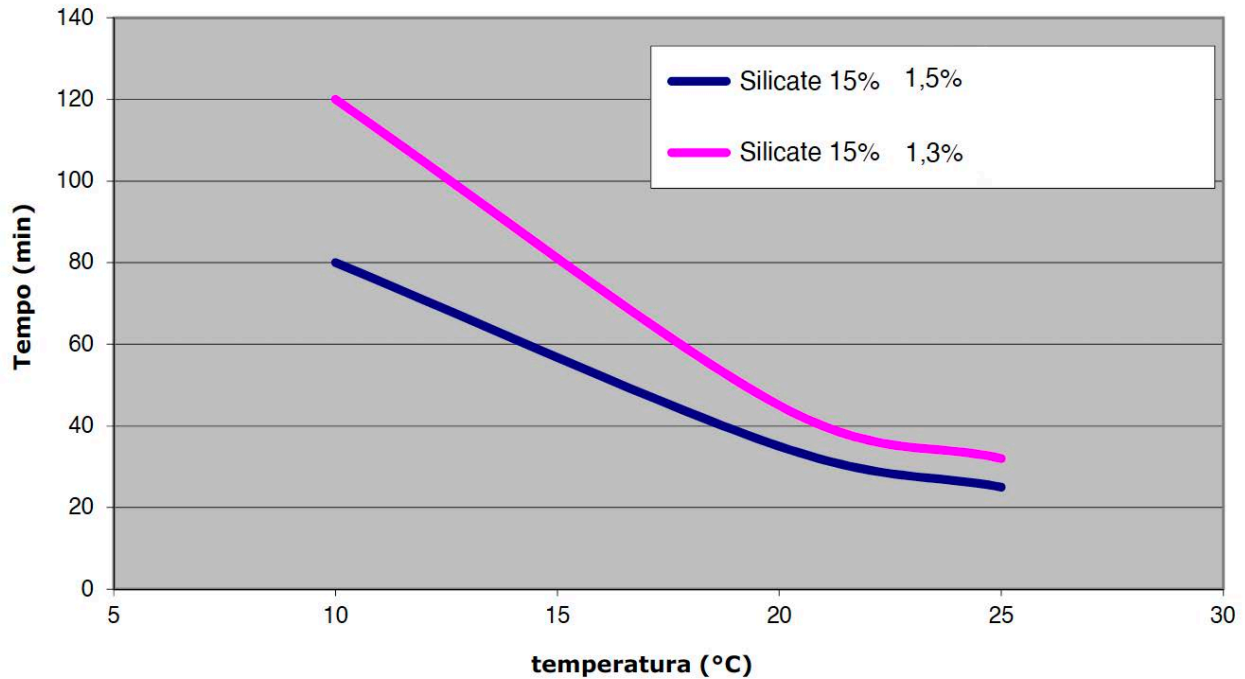


Tests carried out in the following conditions:

- > Silicate 38/40
- > Weight ratio = 3.3
- > Dry substance = 36.3%
- > Temperature = 20 °C

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Setting time as a function of temperature

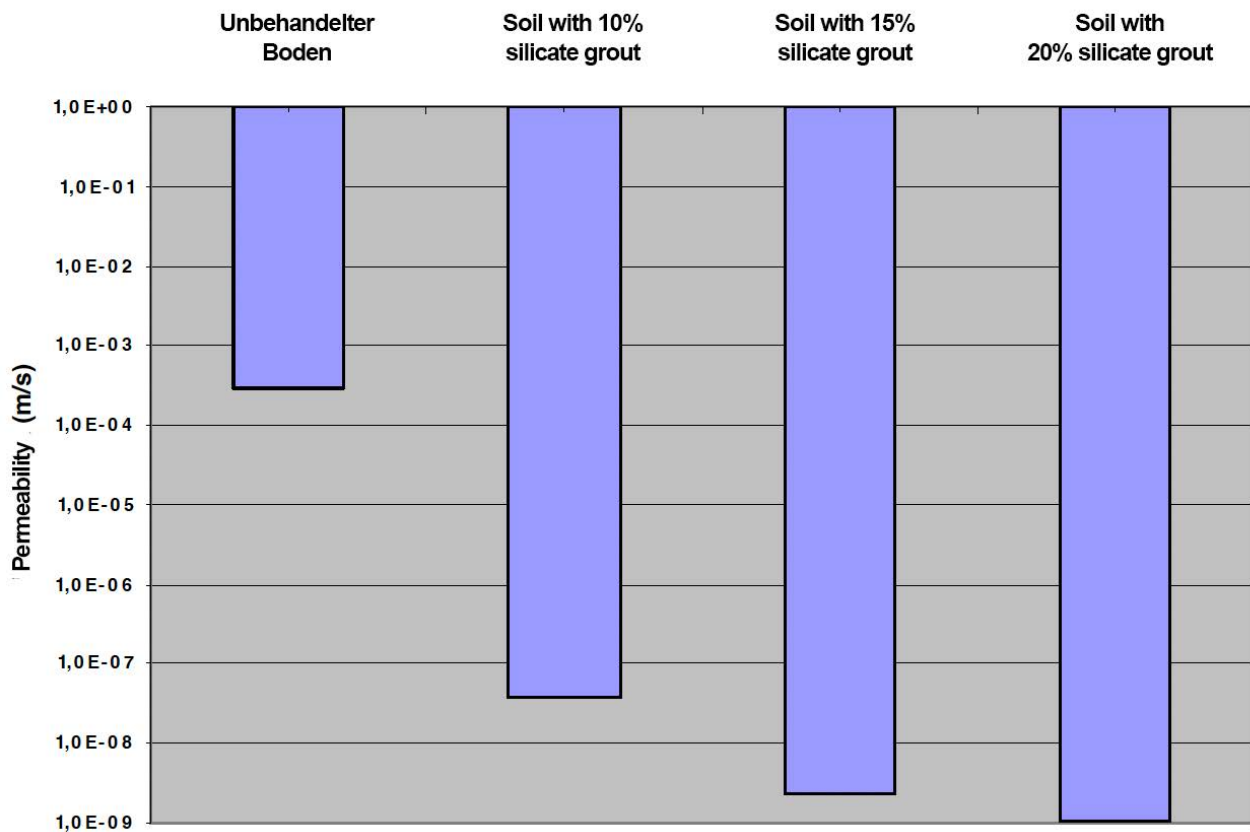


Tests carried out in the following conditions:

- > Silicate 38/40
- > Weight ratio = 3.3
- > Dry substance = 36.3%
- > Silicate = 15% of the volume

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Permeability as a function of silicate content



Prove effettuate nelle seguenti condizioni:

- > Silicate 38/40
- > Weight ratio = 3.3
- > Sand 0/4