

Silex 322



Description

Organic silicon-mineral two-components system, high expansion with excellent mechanical properties and chemical resistance.

Organo-mineral compound resulting from the reaction between a modified silicate aqueous solution (component A) and a modified polyisocyanate (component B) with expansion up to 40 times in volume. The product reacts also in the presence of water and in critical climatic conditions. The final compound is self-extinguishing, non-toxic, non-pollutant and offers a very good adhesion on stone materials. Designed for rocks and soil waterproofing and consolidation, cavities filling and cracks sealing, aqueducts and pipes waterproofing coating.

Characteristics

- ❖ Expansion up to 40 times in volume
- ❖ Very good adhesion on stone materials
- ❖ It reacts also in presence of water
- ❖ Excellent chemical resistance
- ❖ self-extinguishing, non-toxic, non-pollutant

Mixing ratio:

	Parte A	:	Parte B
pbv (volume)	100	:	100
pbw (weight)	100	:	100

Properties

Property	UM	Part A	Part B	Mixture
Material		Silicate	Isocyanate	Organomineral
Aspect		Liquid	Liquid	Liquid
Color	visual	yellow	brown	
Density	g/ml	1.27 – 1.35	1.18 – 1.28	
Viscosity	mPas	30 – 90	200 – 300	
pH		11.0 – 12.0	neutral	
Start reaction	secs			10 - 30
Full reaction	mins			2 - 3
Exothermic peak	mins			90 - 100
Compression st.	Kg/cm ²			1 – 180*

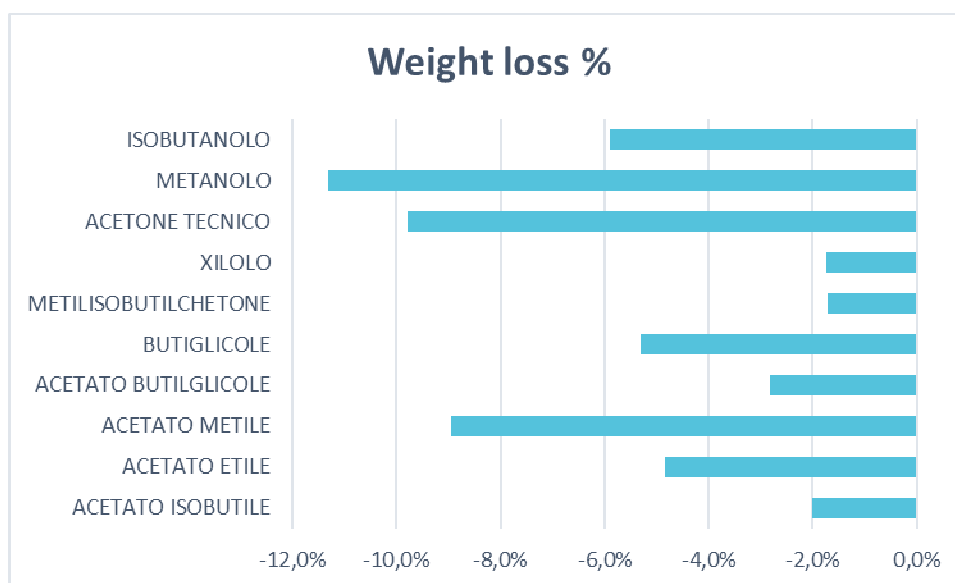
(¹): Refers to a mass of 2000g
 Data expressed at 20°C and 60% U.R.
 (*) it depend on expansion factor

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Chemical resistance

Specimens immersed 20 days at room temperature.



Use

Both components A and B must be stirred thoroughly before sampling and use; especially Silicate (Silex 303 A) separates in a few minutes. The silicate may exhibit an increase in viscosity when stored at low temperatures. Apply by injection through a suitable plant equipped with static mixer and pumps with pressure up to 100 atm.

Storage

Store both components A and B in the original pack, sealed, at temperature between +5°C and +35°C in a cool and dry place. This material has 12 months shelf life.

Further information

These data do not replace the product specifications. The values given are for typical properties of the product and are not to be understood as the extreme values of minimum or maximum. Our technical suggestions are given in good faith but without warranty, this also applies when they are involved proprietary rights of third parties. This does not relieve the buyer from the need to test the products supplied, as well as from their use. Before using the appliance to be able to view the MSDS.

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