

31040 Ledan[®] TC 1 Plus

Injection mortar to strengthen masonry walls, even in the presence of cement.

Special Properties:

Ledan[®] TC 1 Plus is specially suited to strengthen masonry walls made of traditional materials or even when made of cement. It has a high mechanic stability – particularly its extraordinary resistance towards sulphates should be stressed. The mortar expands a little bit in liquid state and can be applied without wetting the underground.

Application:

Ledan[®] TC 1 Plus is used to fill out cavities, to strengthen the structure of masonry walls, to fill out cracks and can be mixed with quartz dust. This mortar is suitable to fill out large cavities making it a very cheap filler.

Composition of mortar:

Special chemically stable and high sulphate resistant hydraulic binding agent components (type Portland cement), with minor amount of salts, non-hydraulic lime and very fine Terra Pozzuoli which contains a special additive mixture to improve the fluidity. This mixture is finely ground and mixed. Ledan[®] TC 1 Plus is grey.

Mixture:

Mix Ledan[®] TC 1 Plus thoroughly with demineralized water at a low rotation (RPM) for about 3 minutes. The mortar mixture should be used up within 30 minutes.

Mixing recommendations:

Application	Ledan [®] TC 1 Plus	Water
Strengthening of masonry walls	10 kg	6 Liter

Recommended applications:

1. Close possible discharge openings of mortar with a reversible material.
2. Make suitable boreholes to apply a stable layer of Ledan[®] TC 1 Plus. The holes should have a diameter of at least 15 mm, the distance between the boreholes should not be greater than 25 cm. The depth of the holes should be 2/3 of the wall.
3. The boreholes have to be cleaned thoroughly by blowing or exhausting.
4. Injection can be carried out with normal syringe with a needle or thin tube. Syringes such as those used by veterinarians are recommended.

If the boreholes have been carefully made and after removing all loose parts, Ledan[®] TC 1 Plus can be infused in the hollow sites without previous wetting or without any pressure.

Limited Areas of Application:

Ledan[®] TC 1 Plus is an hydraulic binding agent, thus the temperatures should not be below 5°C and not above 35°C when working with this mortar.

Properties:

	<i>Value</i>	<i>Evaluation</i>
Specific weight	1.32 kg/dm ³	medium
Start of hardening:	6 h	medium
End of hardening:	12 h	medium
Processability:	3 h	medium
Compressive strength:	20 N/mm ²	medium
Bending strength:	5.2 N/mm ²	medium
Adhesive capacity:	0.17 N/mm ²	medium
Sweating:	none	very good
Vapor permeability:	15 µ	good
Elasticity modul:	5500 N/mm ²	medium
Water containment:	> 85 %	very good
Loss:	1.5 – 2.4 µm	very good