

NATURE OF THE PRODUCT

Antifreeze additive for powder (Polar SC) or fluid (Polar L) cement mixes without chlorides. Developed in WINKLER Research & Development Laboratories.

USE

Product used for making mortar or concrete pours at cold temperatures or lower than 0°C.

RECOMMENDATIONS

No additives required.
Do not use if the container is damaged.

APPLICATION

The product is ready for use. Polar Sc must be added to the cement mix when mixing. Polar L must be added to the water that will have to be reduced in proportion to the antifreeze litres included in the mix.

Until the mortar or concrete is completely cured, the temperature must not reach values below -5 °C.

WARNINGS

Only use recently produced and not aluminous cements. Do not use frozen mix components (gravel, sand, cement, water) or at temperatures lower than +5°C.

CONSUMPTION

Polar SC: 1 kg per 100 kg of cement.
Polar L: 1-3 kg per 100 kg of cement.

PACKAGING

Polar SC: 1 kg bags
Polar L: 1 kg bottles / 5-10-20 kg cans.

STORAGE

POLAR SC

If the product is stored in its unopened original packaging, shelf-life is 12 months. Store at temperatures between +5°C and +35°C. Frost sensitive.

POLAR L

If the product is stored in its unopened original packaging, shelf-life is 12 months. Can be safely stored down to a temperature of approx. -10° . At lower temperatures it could freeze. Once defrosted, it recovers its original characteristics. In any case, we recommend storing the product at temperatures between $+5^{\circ}\text{C}$ and $+35^{\circ}\text{C}$.

SAFETY STANDARDS

CAUTION

For information about safety standards, users must refer to the most recent Safety Sheet drafted in compliance with currently applicable Safety Standards, containing physical, toxicological and other data about the product used.

ECOLOGY

Dispose of the product and/or empty packaging in appropriate sites. For further information about waste disposal, see the most recent Safety Sheet.

TECHNICAL DATA (average values)

PRODUCT FOR PROFESSIONALS

	POLAR L	POLAR SC
Appearance:	fluid	powder
Colour:	colourless	grey
Density at 20°C :	1.060	
Dry residues (%):	30	100
Chloride ions:	none	none
Solubility	water	water

The information contained in this technical data sheet is to the best of our knowledge correct. However, by no means can it be considered a guarantee, as usage, working area and application of the product in accordance with the instructions given and their success in application is beyond our control and is dependent on a number of factors. We decline any responsibility for the improper use of the product as the application recommendations contained herein are to be considered as a general guideline. If at all in doubt, preliminary tests should be carried out. WINKLER S.r.l. reserves the right to modify and up-date said data sheets without prior notice. Clients are kindly requested to verify that they are in possession of the current edition.