PRODUCT DATA SHEET

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REVIEW: NO. 4

POLAR L
POLAR SC

DESCRIPTION OF THE PRODUCT

Antifreeze additive for liquid (**POLAR L**) or powdered (**POLAR SC**) cement mixes, chlorides-free.
Developed by WINKLER Research & Development Laboratories.

FIELDS OF USE

Product used for the preparation of mortars and concrete pours at low or very low temperatures, even below 0°C.

WARNING

Do not add additives.
Do not use the product if the packaging is damaged.

PRECAUTIONS

Use recently produced, non-aluminous cement. Ensure that none of the mix components (gravel, sand, cement, water) are frozen or at temperatures below +5°C. During curing, the mortar or concrete temperature must not drop below -5°C until fully hardened.

APPLICATION

The product is ready to use.
POLAR L should be added to the mixing water, which must then be reduced according to the volume of antifreeze added.
POLAR SC should be added to the cementitious mix during mixing.

CONSUMPTION

POLAR L: 1-3 kg per 100 kg of cement
POLAR SC: 1 kg per 100 kg of cement

PACKAGING

POLAR L: 1 kg bottles – 12 pieces per box 5-20 kg cans
POLAR SC: 1 kg bags – 40 pieces per box

winkler® Advanced Building Material

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STORAGE

POLAR L

The product in its original and undamaged packaging, can be stored for up to 12 months. It remains stable down to approximately -10°C.
At lower temperatures, it may freeze; once thawed, it regains its original properties.
It is recommended, however, to store the product at temperatures between +5°C and 35 °C.

POLAR SC

The product in its original and undamaged packaging, can be stored for up to 12 months. Store at temperatures between +5°C and 35 °C. The product is not frost-resistant.

SAFETY INSTRUCTIONS

PRECAUTIONS

For safety information, the user must refer to the latest Safety Data Sheet (SDS), prepared in accordance with applicable regulations. The SDS contains detailed information on the physical, toxicological, and safety characteristics of the product.

DISPOSAL AND ENVIRONMENTAL PRECAUTIONS

Do not release the product or empty containers into the environment. For detailed disposal instructions, refer to the most recent Safety Data Sheet (SDS).

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TECHNICAL FEATURES
(average value)

FEATURES	RESULTS	
	POLAR L	POLAR SC
Appearance	Liquid	Powder
Colour	Colourless	Grey
Density at +20°C	1.060 g/cm^2	-
Solid content	30 %	100%
Chloride ions	None	none
Solubility	Water	Water

PRODUCT FOR PROFESSIONAL USE ONLY

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