



ANTIFROST ADDITIVE AF

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Allows working at low temperatures (till -15°C).

Application:

- Product allows processing of cement binder materials in winter conditions

Suitability:

- For construction work in winter;
- For all kinds of cement binders' mortars and concretes;
- Additive accelerates material's hardening;
- Does not contain chlorine ions, which allows it to be used for reinforced concrete products.

Qualities:

- Accelerates the initial strength of material
- For reinforced concrete constructions, mortars and concrete.
- For mortars with class higher than M5
- Does not contain chlorine ions
- Decreases water freezing temperature

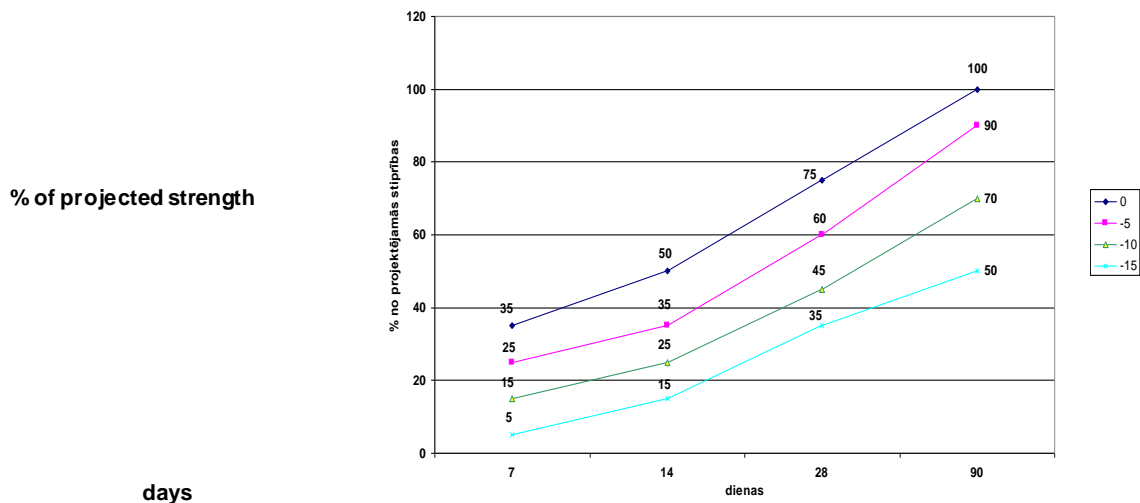
Components:

- Salt
- Antifreeze additive
- Additives.

Technical data:	Shape	liquid
	pH	8-9
	density, g/cm ³	1,10±0,01
	Solubility (in water), +20°C	unlimited
	Dry residue	20-22%

Strength diagram during hardening of concrete with anti-frost additive AF in low temperatures:

Stiprības diagramma cietējot zemās temperatūrās betonam ar pretsala piedevu AF.



Foundation preparation:

- Construction elements (bricks, etc.) must be cleaned from ice and snow. Surface temperature must be higher than 0°C.
- Mortar or concrete additive/ component (sand, splinters, cement) must be above 0°C.
- Foundation and forms temperature must be such that concrete does not freeze while hardening before reaching critical or calculated strength.



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Processing:

- Anti-frost additive must be mixed properly before usage.
- Additive is added together with water for preparation of concrete or other mixture;
- In the water-cement ratio, calculate the amount of antifreeze additive as part of water.
- The temperature of the concrete/mortar mixture at the time of application should be $\geq +8^{\circ}\text{C}$
- After the additive is added, it is recommended to process the concrete within 30 minutes, in case the weather temperature is positive.
- In negative air temperatures the start of hardening becomes longer.
- The use of the additive does not exempt you from observing the concreting rules in winter conditions.

Additional recommendations for application:

- Tools shall be washed with water straight after work is finished.

Consumption % on 1 kg cement:

Air temperature ($^{\circ}\text{C}$)	Consumption on 1 kg cement (%)
+5 ÷ -5 $^{\circ}\text{C}$	3
-5 ÷ -10 $^{\circ}\text{C}$	4
-10 ÷ -15 $^{\circ}\text{C}$	6

AF consumption for products produced by SAKRET

Product	Consumption from +5 $^{\circ}\text{C}$ till -5 $^{\circ}\text{C}$ (ml to the package)	Consumption from -5 $^{\circ}\text{C}$ till -10 $^{\circ}\text{C}$ (ml to the package)	Consumption from -10 $^{\circ}\text{C}$ till -15 $^{\circ}\text{C}$ (ml to the package)
SAKRET BE 25 kg	135	180	270
SAKRET BE 40 kg	220	290	440
SAKRET BH 25 kg	150	200	300
SAKRET BH 40 kg	240	320	480
SAKRET ZM (M10) 25 kg	130	170	260
SAKRET ZM (M10) 40 kg	205	275	410
SAKRET GMS (M10) 25 kg grey	235	310	470
SAKRET GMS (M10) 25 kg white	260	345	520
SAKRET ZM (M20) 25 kg	165	220	330
SAKRET ZM (M20)1000 kg	6600	8800	13200
SAKRET RM 25 kg	200	265	400

Storage:

- Storage time in original, closed packing – 36 months.

Utilization:

- Packing shall be utilized in compliance with local legislation demands.

Safety information:

- Safety phrases are on package and in safety data sheets.

Colour	Packing 1	Packing 2	Barcode
Yellowish	1l	360 pcs. /Pallet	4751006560604

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Yellowish	5 l	72 pcs. /Pallet	4751006561113
Yellowish	10 l	36 pcs. /Pallet	4751006560260
Yellowish	25 l	24 pcs. /Pallet	4751006560154
Yellowish	1000 l	1	4751006561892

The information provided in the technical data sheet is based on laboratory tests and practical experience. The producer is not responsible for losses caused by wrong usage of the given product. In case of questions or uncertainty, please contact producer or seller. Information on product's safety is available in safety data sheets, declared values – in declaration of performance.