

TECHNICAL DATA SHEET

WINTER PLASTICIZER ZP-1/ PLASTICISING ADDITIVE FOR MOTRARS AND CONCRETE

07 01 21

*Plasticizing additive for concrete and masonry mortars in winter conditions
Certificate of Conformity No. 1327-CPR-0899, EN 934-2+A1:2012, T2.*

Application:	<ul style="list-style-type: none"> For consistency improvement of cement binders in winter conditions 																
Suitability:	<ul style="list-style-type: none"> For transportable concrete and other cement binding products, for work in winter conditions 																
Qualities:	<ul style="list-style-type: none"> Allows to plasticize concrete or masonry up to grade S4 and embed at negative temperatures; Does not promote layering of concrete; Increases the bending strength of concrete; Does not contain chlorine ions. Provides brand strength indicators after the onset of positive ambient air temperature 																
Components:	<ul style="list-style-type: none"> Sodium formate and thiosulfate solution Sodium lignosulfonates Additives 																
Technical data:	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Shape</td> <td>liquid</td> </tr> <tr> <td>pH</td> <td>6-8</td> </tr> <tr> <td>Density, g/cm³</td> <td>1,16±0,01</td> </tr> <tr> <td>Colour</td> <td>Brown</td> </tr> <tr> <td>Dry residue %:</td> <td>29-31%</td> </tr> <tr> <td>Compressive strength in 7 28 days for testing mixture</td> <td>≥110% from control mixture</td> </tr> <tr> <td>Air content in testing mixture</td> <td>≤2% (of volume) more than in control mixture</td> </tr> <tr> <td>Water reduction in testing mixture according to water volume</td> <td>≥5% in comparison with control mixture</td> </tr> </table>	Shape	liquid	pH	6-8	Density, g/cm ³	1,16±0,01	Colour	Brown	Dry residue %:	29-31%	Compressive strength in 7 28 days for testing mixture	≥110% from control mixture	Air content in testing mixture	≤2% (of volume) more than in control mixture	Water reduction in testing mixture according to water volume	≥5% in comparison with control mixture
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Foundation preparation	<ul style="list-style-type: none"> Forms and building elements (blocks, bricks, panels etc.) shall be cleaned from snow and ice 																
Processing:	<ul style="list-style-type: none"> The plasticizing additive must be mixed well before use. The additive is added together with water intended for the preparation of concrete or mixture It is recommended to include the amount of additive as part of water in the water-cement ratio. The usage of additive does not release from observing the rules of concreting in winter conditions 																
Additional recommendations for processing:	<ul style="list-style-type: none"> Tools must be washed with water straight after work is finished 																
Consumption % 1 kg cement:	<p>Temperature 0÷-5°C 1,5 ÷ 2,5</p> <p>Temperature -5÷-10°C 2,5 ÷ 3,8</p> <p>Temperature -10÷-15°C 3,8 ÷ 5</p>																
Packing:	<ul style="list-style-type: none"> PP bottle 1l/ box 15 pcs. / Full pallet 360 pcs. PP cans 5 l/full pallet 72 pcs. PP cans 10 l/ full pallet 36 pcs. PP cans 20 l/ full pallet 22 pcs. PE container 1000 l 																
Storage:	<ul style="list-style-type: none"> Storage time in original unopened package – 24 months 																
Utilization:	<ul style="list-style-type: none"> Packing must be utilized in accordance with local legislation demands. 																

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Safety information:

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

Colour	Packing 1	Packing 2	Barcode
Brown	1l	360 pcs. / Pallet	4751006565104
Brown	5 l	72 pcs. / Pallet	4751006565111
Brown	10 l	36 pcs. / Pallet	4751006565135
Brown	25 l	22 pcs. / Pallet	4751006565128

The technical data sheet information applies to a given product, if there is no other manufacturer prepared and issued technical documentation. 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.