



# MelChem powder

New-generation superplasticizer for concrete and cement related products

<b>CHARACTERISTICS</b>	<b>LIMIT</b>	<b>METHOD</b>
Appearance: -	granular powder	CHI0009
Colour:	- colourless – pale yellow	CHI0018
Behaviour in water:	- soluble	CHID0110
pH at 20°C (10% wt solution):	UpH 8,5 ± 1,0	CHI0011
Dry matter:	%wt 94,0 ± 1,0	CHI0013
Bulk density: g/MI	0,70 ± 0,10	CHID0061
Chemical composition: Sulphitated melaminformaldehyde resin		
Ionic charge: Anionic		
Shelf-life: 24 months if stored in original packaging at a temperature between +5°C and +25°C, and sheltered from moisture.		

## **GENERAL INFORMATION:**

**MelChem powder** is a high-grade synthetic product, produced by condensation of sulfonated melamine and formaldehyde. **MelChem powder** allows increasing the performance of all concrete products, highly reducing water-cement ratio and increasing final mechanical strength.

## **APPLICATIONS AND SUGGESTED DOSAGES:**

**MelChem powder** is especially suitable for the production of:

- ✓ white cements and all cements' type;
- ✓ pre-compressed prefabricated concrete, when very early-strengths (at 12-16 hours) have to reach a minimum value due to shift-production schedule;
- ✓ prefabricated concrete in general, in order to reduce or completely eliminate steam curing;
- ✓ mortar application, gypsum application.

The suggested dosage varies from 0,4 to 2 Kg / 100 Kg of cement; effective dosage should be carefully tested for every application.

**MelChem powder** is compatible with additives such as ligno-sulphonate, gluconate, anti-shrink products; it is generally not compatible with polynaphtalene- or polymelamine-based products.

**MelChem powder** does not contain chlorides, sugary solutions and surface-active substances.