

Melment® F

Superplasticizers in powder form for cementitious and calcium sulphate based dry-mix mortars

What is Melment® F?

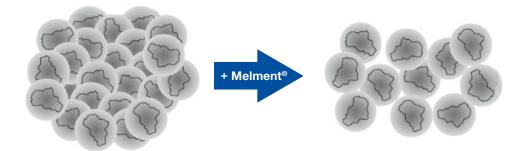
Melment® F is the brand name of BASF Construction Additives GmbH for its superplasticizers in powder form based on sulphonated melamine polycondensation products.

Melment® has a strong adsorbing and dispersing effect on mineral binder particles (such as cement or calcium sulphate particles) because of the high negative charge density of the synthetic polymer. However **Melment®** has no negative impact on the surface tension of the mixing water.



Mode of action of Melment® superplasticizer molecules

Anionic **Melment®** polymers adsorb to the surface of the cement (resp. calcium sulphate) particles and disperse the agglomerated particles which fluidifies the mix and improves workability of the mortar.



Melment® F in dry-mix mortar systems

The different grades of **Melment® F** are customized to various kinds of different applications and requirements (for cementitious and gypsum-based dry mortar systems).

Features	Benefits	
► Strong dispersing and fluidifying effect	► Optimal consistency and applicability	
► High water reduction	► Improved strength and abrasion resistance	
► No air entrainment	► High density, high durability, no surface defects	
▶ No discoloration	► Homogeneous surface aspect	
► Excellent cohesion of fresh mortar	► No bleeding, no segregation	
 Outstanding compatibility with all cementitious or calcium sulphate based binders and all common mortar additives 	 Utmost scope for the formulator and greatest formulation alternatives 	

Fields of application of Melment® F grades

Cementitious applications	Calcium sulphate based applications	
► Self-levelling underlayments (SLUs)	► SLUs based on alpha-hemihydrate (α-HH)	
► Floor screeds and industrial floors	► Flowing floor screeds based on anhydrite or α-HH	
▶ Non-shrink grouts	► Moulding and industrial plaster	
► Repair mortars	► Medical and dental plaster	
► Tile adhesives and tile grouts		

The different Melment® F grades

The **Melment® F** portfolio comprises grades for cementitious applications (e.g. **Melment® F 10**) and grades for gypsum-based applications (e.g. **Melment® F 10 G**).

Melment® F grades for cementitious applications		Melment® F grades for gypsum-based applications	
Product	Properties	Product	Properties
Melment® F 10	Allround product	Melment® F 10 G	Allround product
Melment® F 10 M	Enhanced dispersing effect	Melment® F 15 G	Long open time, low formaldehyde content
Melment® F 15	Low formaldehyde content	Melment® F 17 G	Lower formaldehyde content
Melment® F 50	Very low content of sodium sulphate		
Melment® F 4000	Enhanced dispersing effect		
Melment® F 245	Strongest dispersing effect		

▶ Dosage recommendation: 0.20 – 2.00 % (by weight of cement resp. calcium sulphate)

Further information (test formulations and further test results) is available on demand. Please feel free to contact our local sales representatives.

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