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POLYCARBOXYLATE BASED HYPER PLASTICIZER (POWDER)

Description:

The product gives the mortar excellent flow properties even if the water/cement (w/c) ratio is low. The quantity which needs to be added is considerably smaller than that of conventional plasticizers. We recommend DOSTFLOW-HP for all cement systems in which the water requirement is to be reduced.

Application:

Quantities of 0.2 – 0.4 %, in relation to the amount of binder used, produce the desired liquefying effect. The quantity added is dependent on various parameters (e. g. the quality of cement used) and must therefore be determined beforehand by means of preliminary tests. To reduce the air content of fresh mortar, we recommend formulating the product with 1 – 3 % of a standard commercial defoamer, e. g. Agitan®1 P 803 When developing formulations with DOSTFLOW-HP, producers should carry out their own careful tests since a large number of influences are involved in the manufacturing and processing of cement systems (e. g. compatibility with other ingredients, mixing procedures and water requirement) and we are unable to include them all in our own tests.

Application areas:

- Self compacting concrete,
- High performance concrete
- Precasting
- Architectural concrete
- Specially shaped concrete slabs
- Concrete containing fly ash or silica fume
- Blast furnace slag concrete
- Lightweight concrete
- Marine concrete
- Pumping concrete

Advantages:

- Produces extended slump life.
- Requires reduced dosages.
- Improves the flow properties of the cement mix by dispersing the particles and preventing re-agglomeration.
- Improves the rheological and mechanical properties of concrete such as workability, compressive and flexural strength, modulus of elasticity.
- Promotes usage of cementitious supplementary materials such as silica fume, fly ash and blast furnace slag.

Technical Specifications:

Physical	status In powder
Color Pale	pink
Water solubilty	Complete
Chloride ion	No chloride ion
Specific gravity	0.45-0.6 g/cm3
Keeping time	Over one year in original bags
Consumption	As %0.2-%0.5 of the used binder weight