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GLENIUM® C 317

Modified Polycarboxylate Ether High Range Water Reducing Admixture Primarily developed for concrete industry where high early strength and durability are required

DESCRIPTION

GLENIUM C 317 is a new generation high range water reducing admixture, based on chains of modified poly carboxylic ether, primarily developed for concrete industry where high strength and durability are required . The ability to work with very low water/cement ratio allows for the manufacture of high quality concrete.
GLENIUM C 317 is free of chloride is designed to meet ASTM C 494 requirements for Type A and Type F and it is also compatible with all cements meeting the ASTM standards.

The new chemistry of GLENIUM C317
What differentiates from the traditional high range water reducing is a new, unique mechanism of action that greatly improves the effectiveness of cement dispersion. **GLENIUM C 317** has a different chemical structure from the traditional high range water reducing. It consists of a carboxylic ether polymer with long side chains. At the beginning of the mixing process it initiates the same electrostatic dispersion mechanism as the traditional high range water reducing, but the side chains linked to the polymer backbone generate a steric hindrance which greatly stabilises the cement particles ability to separate and disperse. With this process, flowable concrete with greatly reduced water content is obtained. The mechanism allows to obtain, compared to traditional high range water reducing admixtures, considerably higher early strengths and higher reduction of mixing water content.

Compatibility
In order to optimise special requirements the use of the following complementary additives is suggested:

- silica fume for high performance concrete (HPC) and improve durability in chemical aggressive environments;
- synthetic fibres to prevent cracks due to plastic shrinkage;
- curing agent MASTERKURE against too quick evaporation of mixing water

GLENIUM C317 is not compatible with all admixture of RHEOBUILD series.

FIELDS OF APPLICATION

1. All type of concrete mixes in which high early strengths are essential.
2. Precast concrete.
3. Self compacting concrete for Precast concrete
4. Insitu casting of structural elements.

FEATURES AND BENEFITS

- Rheoplastic concrete with the lowest water/cement ratio;
- No segregation or bleeding;
- Low vibration time required even in case of high reinforced concrete;
- Excellent surface finish

APPLICATION

GLENIUM C 317 is a ready-to-use admixture to be added to the concrete mix as a separate component. Optimal mixing water reduction is obtained if **GLENIUM C 317** is poured into the concrete mix right after the addition of the mixing water. Avoid adding the admixture to the dry aggregates.

DOSAGE

The normally recommended dosage rate is approximately 0.6 – 2.0 litre per 100 kg of cement material. Other dosages may be recommended in special cases according to specific job site conditions.

PACKAGING

GLENIUM C 317 is available in 205 litre drums or in bulk.

SHELF LIFE

GLENIUM C317 can be stored for 6 month if stored at temperature above 0°C, in tightly sealed original drums.

PRECAUTIONS

For detailed Health, Safety and Environmental recommendations, please consult and follow all instructions in the product Material Safety Data Sheet.

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