CHEMICS SR H50
HIGH RANGE WATER REDUCING ADMIXTURE

DESCRIPTION

CHEMICS SR H50 is a ready to use polycarboxylate based, high range water-reducing admixture for concrete. CHEMICS SR H50 increases early concrete strength as well as ultimate strength. CHEMICS SR H50 can be used to produce increased concrete slump/slump flow or to significantly reduce water demand for a specific slump/slump flow. CHEMICS SR H50 can be added at the plant or jobsite. CHEMICS SR H50 contains no added chlorides.

PRIMARY APPLICATION

- High performance concrete
- Self-consolidating concrete
- Precast concrete
- Low water/cementitious ratio concrete
- High early strength applications
- PLASTOL 5000 SCC must be used instead of PLASTOL 5000 for self-consolidating concrete

FEATURES / BENEFITS

- Makes it possible to produce concrete with a low water/cementitious ratio
- Self-consolidating concrete reduces labor costs
- High early strength reduces energy costs
- Controlled setting times reduce labor costs

TECHNICAL INFORMATION

Appearance: Yellowish
Base: Polycorboxilic ether
Specific gravity: 1.10 ± 0.02
Air content: <1%
pH value: Minimum 6
Chloride content (%): 0.01% ± 0.02
Storage: Cool and Dry place
Grade of concrete: M20 to M60 upper grade concrete
PACKAGE

CHEMICS SR H50 is packaged in bulk, 50kg, 230kg and 250kg hdpe drums.

SHELF LIFE

1 year in original, unopened container.

SPECIFICATIONS / COMPLIANCE

Fully complies with the requirements of:
- ASTM C 494, Type A and F admixture and AASHTO M 194 Type A and F admixture.

DIRECTIONS FOR USE

CHEMICS SR H50 can be added to the initial batch water or directly on the freshly batched concrete and mixed for approximately 5 minutes or 70 revolutions. However, better results have been observed when added after the cementitious materials and other admixtures. It should not come into contact with dry cementitious materials or other admixtures until mixed thoroughly with the concrete batch.

CHEMICS SR H50 is typically used at dosages of 200 to 1200 mL per 100 kg of cementitious material. Other dosages are acceptable with prior testing and confirmation of the desired performance with specific materials being used.

For any concrete application including Self-Consolidating Concrete (SCC), the dosage of CHEMICS SR H50 will vary depending on the mix design, local materials, and individual needs of the concrete producer. Trial mixes should be run to verify plastic and hardened performance with local materials. If the material gradations are not optimum for SCC, a viscosity modifier, like VISCTROL, may be used to improve the quality of the mix. Please consult a local CHEMICS Chemical Sales Professional for trial mixtures and dosage recommendations.

CHEMICS SR H50 is compatible with most admixtures including air-entraining agents, accelerators, most water-reducers, retarders, shrinkage reducers, corrosion inhibitors, viscosity modifiers, and microsilica. However, each material should be added to the concrete separately.

PRECAUTIONS / LIMITATIONS

- Care should be taken to maintain CHEMICS SR H50 above freezing. However, freezing and subsequent thawing will not harm the material if thoroughly agitated. Never agitate with air or an air lance.
- Keep concrete from freezing until a minimum strength of 7 MPa is reached.
- If re-dosing CHEMICS SR H50 at the jobsite, it is recommended that the air content is checked to conform to job specifications.
- In all cases, consult the Safety Data Sheet before use.

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