



EUCLID CHEMICAL

PLASTOL™ 5000/5000 SCC

HIGH RANGE WATER REDUCING ADMIXTURE

PRODUCT INFORMATION

PACKAGING

Packaged in bulk 1000 L totes, 205 L drums and 20 L pails.

SHELF LIFE

1 year in original, unopened container

SPECIFICATIONS/COMPLIANCES

ASTM C 494, Type A & F

AASHTO M 194, Type A & F

ASTM C 1017, Type I

Approved by the Ontario and Quebec Ministry of Transportation (MTO and MTQ)

DESCRIPTION

PLASTOL 5000/5000 SCC is a ready to use polycarboxylate based, high range water-reducing admixture for concrete. PLASTOL 5000/5000 SCC increases early concrete strength as well as ultimate strength. PLASTOL 5000/5000 SCC can be used to produce increased concrete slump/slump flow or to significantly reduce water demand for a specific slump/slump flow. PLASTOL 5000/5000 SCC can be added at the plant or jobsite. PLASTOL 5000/5000 SCC contains no added chlorides.

PRODUCT CHARACTERISTICS

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

PRIMARY APPLICATIONS

- 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

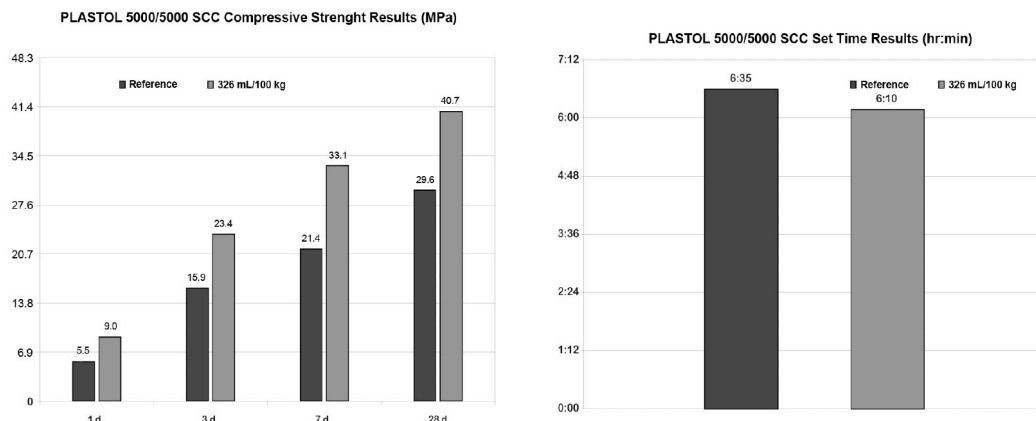
PRECAUTIONS/LIMITATIONS

- Care should be taken to maintain PLASTOL 5000/5000 SCC 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 PLASTOL 5000/5000 SCC 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.

TECHNICAL INFORMATION

PERFORMANCE DATA

The following test results were achieved using typical ASTM C 494 mix design requirements, 307 kg/m³ cement content and similar ($\pm 0.5\%$) air content. These results were obtained under laboratory conditions with materials and mix designs meeting the specifications of ASTM C 494. Changes in materials and mix designs can affect the dosage response of PLASTOL 5000/5000 SCC.



DIRECTIONS FOR USE

PLASTOL 5000/5000 SCC 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.

PLASTOL 5000/5000 SCC 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 PLASTOL 5000/5000 SCC 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 Euclid Chemical Sales Professional for trial mixtures and dosage recommendations.

PLASTOL 5000/5000 SCC 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.

Rev. 04.18

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