



PLASTOL SPC

HIGH RANGE WATER REDUCER - SUPERPLASTICIZER

EUCLID CHEMICAL

HIGH-RANGE WATER REDUCERS

PLASTOL SPC

DESCRIPTION

PLASTOL SPC is a polycarboxylate based high range water-reducing admixture which enables concrete to be produced with very low water to cement ratios. PLASTOL SPC produces flowable and self-consolidating concrete at low doses and can obtain up to 45% water reduction. PLASTOL SPC contains no added chlorides or chemicals known to promote the corrosion of steel.

PRIMARY APPLICATIONS

- High performance concrete
- Negative slump concrete
- Heavily reinforced concrete
- Flatwork and mass concrete
- High early strength concrete
- Precast / prestressed concrete
- High slump, flowable concrete
- Self-Consolidating Concrete (SCC)
- Low Water / Cement ratio concrete
- Ready-mix concrete

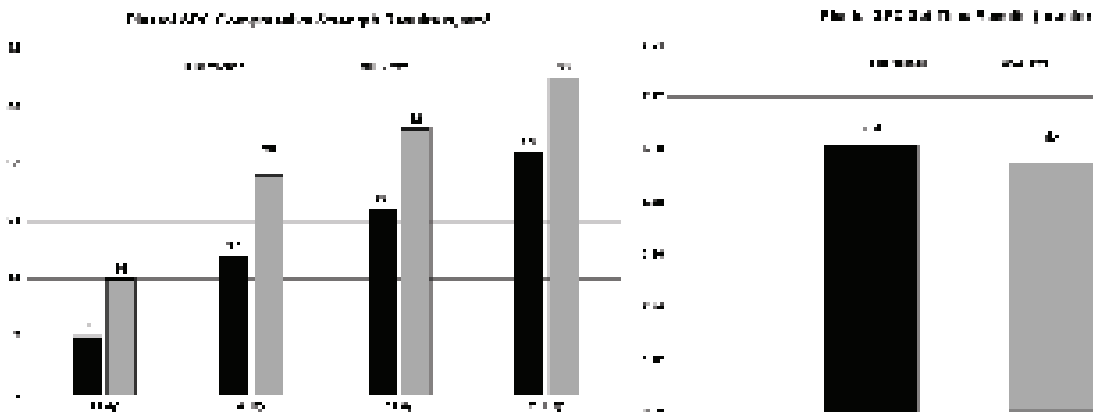
FEATURES/BENEFITS

- **PLASTOL SPC** will produce very high early strengths when used in precast work with Type I and Type III cements
- Produces low water/cement ratio concrete allowing higher strengths
- Produces flowing concrete with quicker stripping strengths
- Aids in concrete placement and reduces labor cost
- Higher early and ultimate strengths

TECHNICAL INFORMATION

Performance Data:

The following test results were achieved using typical ASTM C 494 mix design requirements, 517 lb/yd³ (307 kg/m³) cement content and similar (± 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 SPC.



03 30 00 03 40 00
MASTER FORMAT #:
03 70 00

PACKAGING

PLASTOL SPC is packaged in bulk, 208 L drums and 20.0 L pails.

SHELF LIFE

1 year in original, unopened container.

SPECIFICATIONS/COMPLIANCES

Fully complies with the requirements of ASTM C 494, Types A & F admixtures.

DIRECTIONS FOR USE

PLASTOL SPC has a recommended dosage range of 500 to 1500 mL per 100 kg of cementitious material. Dosage recommendations depend on the characteristics of the materials being used in the mix design. Higher dosages are acceptable with prior testing and confirmation of the desired performance with specific materials used.

For any concrete application including Self-Consolidating Concrete (SCC), the dosage of PLASTOL SPC 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 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 SPC 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 batching directly on the freshly batched concrete.

It should not come into contact with dry cement or other admixtures until mixed thoroughly with the concrete batch. PLASTOL SPC is compatible with other Euclid Chemical 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

- If re-dosing PLASTOL SPC at the job site, it is recommended that the air content of the concrete mix is
- checked to conform to job specifications.
- In all cases, consult the Safety Data Sheet before use.

Rev: 30/06/20