SIDHYA ASIA
CHEMICAL PRIVATE LIMITED

TDS

PRODUCT DATA SHEET

Sidhya® Visco PC 152

High Performance Superplasticizer for Precast Concrete

Description

Sidhya® Visco PC 152 is a high-performance low viscosity product to produce high quality precast concrete. The product is a unique combination of the latest generation low viscosity polymers which improves the water reducing and cement dispersion properties of the product. Sidhya® Visco PC 152 presents exceptional improvement in early strength by initiating faster hydration of concrete. Sidhya® Visco PC 152 also improves strength development and slump retention properties of concrete.

Applications

Sidhya® Visco PC 152 is a high-performance water reducer designed for high early strength and good slump retention in precast concrete. Precast elements such as Hollow core slabs, Block, cement tiles, Kerbstones and other décor elements can be produced by using Sidhya® Visco PC 152. The product is mainly used for the following applications:

- Production of high-quality Precast Concrete.
- Provides high early strength for quick stripping times.
- Used in the production of precast concrete with high early strength.
- Precast Concrete requires faster setting time.
- Precast Concrete with high durability requirements.
- Low viscosity concrete with high pumping precast concrete requirements.

Mixing

Sidhya® Visco PC 152 is not recommended to be added along with dry aggregates and cementitious materials. Sidhya® Visco PC 152 should be added to the concrete mixer post 70% of the mixing water has been added. To achieve the optimum performance, the product is recommended to have minimum wet mixing period of 60 seconds depending on the mixing conditions.

Technical Specifications

Chemical Base	Aqueous solution of modified Polycarboxylate acids
Color	Amber to Light Brown
Appearance	Homogenous
State	Liquid
Specific Gravity	1.04 ± 0.02 @ 20^0C
pH	Minimum 5.0
Chloride Ion Content	<0.10%
Alkali content	<1.5 g Na^2O equivalent / liter of admixture.
Shell Life	12 months from the date of manufacturing if stored as per recommendations and original sealed packing.

Advantages

Sidhya® Visco PC 152 improves the workability of the concrete and surface finish of precast concrete elements. Sidhya® Visco PC 152 improves the dispersion of cementitious materials and provides the following advantages:

- Provides high early strength without increasing cement content.
- Reduction in De-shuttering time and hence increasing production efficiency.
- Improvement in early strength of concrete.
- Increase resistance to carbonation.
- Improvement in durability properties of concrete.
- Improvement of workability of concrete.
- Reduces shrinkage and creep.

Dosage

The recommended dosage of Sidhya® Visco PC 152 should be between 0.2% to 2.0% by weight of cementitious. Effects of over dosage can delay the setting time and lead to bleeding and segregation in fresh concrete properties.

The optimum dosage of the Sidhya® Visco PC 152 should be determined by preliminary trials at site. The dosages above recommendations can be used if agreed by the client and consultant for special applications along with consultation of Sidhya® technical team.

Compatibility

Sidhya® Visco PC 152 is compatible with all types of cement and binders such as GGBS, Ultra Fine GGBS, Micro silica, Fly ash and Metakaolin. Sidhya® Visco PC 152 when using along with other Sidhya® products should be added separately and must not be blended prior to addition.

Important: It is important to conduct preliminary trials when using more than one admixture. Do not combine Sidhya® Visco PC 152 with any Naphthalene based admixtures.

SIDHYA ASIA

SIDHYA ASIA
CHEMICAL PRIVATE LIMITED

Technical Compliances

Sidhya® Visco PC 152 conforms to the requirements of IS 9103: 2007, ASTM C494 Type F & G & BS EN 934-2.

Storage

Sidhya® Visco PC 152 has a shell life of 12 months provided the temperature is kept between +1.0^{0}C to +50.0^{0}C. Please contact Sidhya® technical team if the product falls outside the temperature range.

Packaging

Sidhya® Visco PC 152 is available in 200 liters drums, 1000 litres IBC and bulk tanker. Please contact our Sales Representative for customized packing and more details

Legal Notice

The recommendations related to the application and recommendations are given in good faith based on Sidhya's current experience and knowledge of the products. The benefits stated about the product are only applicable if guidelines provided by Sidhya for storing, handling and mixing are followed under normal conditions. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product is always advised to test the product's compatibility and suitability for the intended requirements and application. Sidhya reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned copies of which will be supplied on request.

Sustainability, Health and Safety

End use of the product must read the Material Safety Data Sheet (MSDS) of the product. The MSDS provides information and advice on storage, handling and disposal of the product and instructions related to physical ecological, toxicological and other safety related data.

info@sidhyaasia.com www.sidhyaasia.com
No. 18/2A2, Nallur Village, Sholavaram, Chennai 600067, Tamil Nadu, India.
526/10 (560/1A), Centuary Plaza Anna Salai, Teynampet, Chennai 600018, Tamil Nadu, India.