

CWC® ROBOHYBRID 101

High Performance Superplasticizing Concrete admixture based PCE technology.

Description

ROBOHYBRID 101 is a specially designed PCE based SuperPlasticizer to Imparts very high workability, improved workability retention and allows a large reduction in water content.

ROBOHYBRID 101 combines the properties of high-water reduction and workability retention. It allows the production of high-performance concrete and/or concrete with high workability.

Form	: Light Brown liquid
Specific Gravity	: 1.100 ± 0.02
Air entrainment	: ≤ 1.5 % over control mix.
pH	: Min. 6.0
Chloride Content	: Nil, as per BS - 5075 (Part-I)










Indicative characteristics

* The uniformity parameters like specific gravity, pH, chloride content etc. will vary for specific customer requirements and mix design. Please refer our MTC issued for specific product configuration for measuring our product parameters that will be constantly and consistently administered.

Standard Compliance








ROBOHYBRID 101 complies with IS9103:1999, BS 5075 Part 3 and with ASTM C494 Type G admixture depending on dosage used.

Advantages:

-  Admixture suitable for pumping different grades of concrete to greater heights.
-  Provides higher strength without increase in cement content or reduction in workability
-  Water Reduction capacity 32 -35% can be achieved.
-  Reduce rate of workability loss normally associated with super plasticizer.
-  Reduce shrinkage cracking because of lower water cement ratio.
-  Improved cohesion & rheology properties
-  Better resistance to Carbonation.
-  Increase Durability
-  Improved workability retention

Domains of application

ROBOHYBRID 101 is a high-performance superplasticizer intended for applications where high-water reduction and long workability retention are required, and it has been developed for use in:

-  Especially suitable for concrete mixes with extended workability requirements as well as improved flow characteristics
-  Self-Compacting concrete
-  Bag/ Bucket Concrete
-  Rheology of concrete will help to pump at greater heights with less thrust on pump.
-  Shear wall and retaining wall concreting.
-  Pumped concrete
-  Suitable for a wide range of applications with high or low W/C and /or high or low environment temperatures



APPLICATION INSTRUCTIONS

DISPENSING

ROBOHYBRID 101 should be added to the mixing water only. Should the product be added to fresh concrete, into the mixing truck, it is necessary to mix at high speed, and then at low speed (with a minimum 3 minutes at each speed)

Dosage: Optimum dosage can only be established after trials, considering the rheological characteristics and the required mechanical performances. Rate of addition is generally in the range of 0.3-1.5% by wt of cementitious material. For maximum dispersion throughout the mix.

** Higher dosage can be used if agreed & allowed by clients/consultants.

LIMITATIONS

Excessive water addition or overdosing may cause bleeding or segregation. If frozen and / or if precipitation has occurred, **ROBOHYBRID 101** may be used after thawing slowly at room temperature and after intensive mixing.

Compatibility

ROBOHYBRID 101 is suitable for use with all types of Portland cements, SRC cements and cement replacement materials such as PFA, GGBFS and micro silica.

The use of a combination of admixtures in the same concrete mix and or cement replacements may alter the setting time. Trials should always be conducted to determine such setting times

Additional information

The CWC range of associated products include high strength cementitious, epoxy grout, polyester resin-based mortar, Resin anchoring systems. Also available a range of products for use in construction; viz., admixtures, curing compounds, release agents, flooring systems and repair mortars.


Separate datasheets are available on these products.

Safety Precautions

Not to be stored at high temperatures for long periods. Should be protected from frost. It is Non-toxic and formulated from chemicals which present no fire or health hazards. Spillages should be washed down immediately with water.

Before use, refer to the Material Safety Data Sheet. The MSDS is available on www.cwcchemicals.com

Packaging

 230 Kgs Barrel & bulk in 10 KL tanker


Shelf Life: If stored in unopened containers at normal ambient temperatures, a shelf-life of approximately 12 months.

Freezing point: Approximately -2°C.

Regional offices


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