

HYPERPLASTICIZER HR 300

CODE: D203

**PRODUCT DATA
SHEET**
EDITION: D2.05.2017**Description:**

D203 DURABUILD HYPERPLASTICIZER HR 300 is new generation hyper-plasticizer in aqueous dispersion based on advanced Polycarboxylate Ether Technology. The special polymer structure makes it possible to add the silky effect of the lateral carboxylic chains to the dispersant effect of the main chain. It can be used for Ready Mixed Concrete along with big job site application where high workability retention is needed even at low water-cement ratio with minimal effect on early and long term strengths.

Uses:

D203 DURABUILD HYPERPLASTICIZER HR 300 is extensively used for all types of cement to produce concrete of the following types:

- Concrete with long transportation time
- Self-compacting / Self-leveling concrete
- Ready mix concrete as well as job site application
- High Performance Concrete/ High Strength Concrete
- Precast Concrete
- Pre-stressed Concrete
- Fluid Concrete with low fines content
- Suitable for small volume concrete delivery like in bag, bucket, etc

Features:

- Large water reduction (up to 30%) with retention of workability
- Micro-cracks in hardened concrete are reduced to minimum yielding better surface finish.
- For a given workability and cement consumption, large water reduction ensures very high compressive strength.
- Alternatively, for same concrete mix, keeping water-cement ratio constant, economy through cement reduction can be achieved upto 15-20%.
- Reduced thixotropy and improved rheology ensures ensures better cohesion and minimum segregation
- Special polymer structure provides excellent dispersion

Application Method:

D203 DURABUILD HYPERPLASTICIZER HR 300 should be first added to mixing water only to ensure maximum dispersion and then added to the concrete mixer to which 50-70% of mix water has already been added. In order to achieve optimum performance a minimum wet mixing time, depending on the mixer efficiency and mixing conditions, of 60 sec is recommended.

In order to achieve concrete of highest quality, standard good concreting practices of production, placement, curing must be followed.

Cleaning: Clean dispensing/ application equipment immediately with water after use.



Precautions and Limitations:

- Addition of Durabuild Hyper-plasticizer to dry aggregate or cement is not recommended
- Excessive water addition or overdosing may cause segregation and bleeding and may cause strength impairment
- Conduct trials beforehand to establish the compatibility of admixture with cement and aggregates
- Do not store at high temperatures. If frozen, then it should be thawed at room temperature and mixed intensively before use

Standard Compliances:

Complies with IS : 9103 – 2007, ASTM C-494-2010 Type G

Technical Data:

PARAMETERS	SPECIFICATION	TEST RESULTS
Physical Appearance		Light amber coloured liquid.
PH as supplied		≥6
Chloride (Cl ⁻) content	BS-5075 (Part -I)	0.02% (max)
Specific Gravity at 27°C		1.100 ± 0.02
Compatibility		OPC, Flyash, PPC,PSC, SRC

Durabuild offers technical support service to specifiers, end users and contractors, as well as on-site technical assistance to conduct trials in locations all over the country.

Coverage:

The required dosage-quantity may be established by the site trial for optimum performance. Dosage of 0.40% to 1.00% by weight of cement may be used as per the need of performance of concrete.

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**CONCRETE
ADMIXTURES**

Packaging:

In 200 kg barrels

Shelf Life:

12 months from the date of manufacturing when kept in cool, dry, unopened and undamaged original packing condition.

Health & Safety:

- Skin Contact: Wash skin with soap & water. Remove contaminated clothes.
- Eye contact: Immediately splash eyes with plenty of water. Consult Physician if irritation persists.
- Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a Physician.



Non-Inflammable



Non-Toxic



Eco-Friendly



Make in India



Dr. GHANTI'S LAB[®]

Centre for Research, Education and
New Product Development
in Construction Chemicals

Dura Build Care Pvt. Ltd.

501/1, DDA Towers 1, District Centre
Janakpuri, New Delhi- 110058

T: 91-11-45611956 , E: support@durabuild.in

OUR PRODUCT RANGE



WATERPROOFING



PROTECTIVE
COATING



CONCRETE
REPAIRS



TILE
INSTALLATIONS



CONCRETE
ADMIXTURES



SEALANTS



ADHESIVES



INDUSTRIAL
FLOORING



GROUTS &
ANCHORS



CEMENT
ADDITIVE

IMPORTANT NOTE: The product information and application recommendations for final use of Durabuild's products, are given in good faith based on Durabuild's vast knowledge and experience of products when properly stored, handled and applied under standard conditions as per Durabuild's recommendations. The user of the product must conduct trials and test to ensure the suitability of the product for intended application and purpose. Owing to the difference in other materials, actual site conditions and on-site workmanship factors which are beyond our control, the company shall not accept any liability either directly or indirectly arising out of use of our products whether or not in accordance with any advice, specification, recommendation or information given by it. Durabuild reserves the right to customise the properties of the product through minor adjustments or fine tuning in the formulation to meet the exact site requirements testimony to its continuing research and development. Users must refer to the most recent issue of product data sheet, copies of which can be made available on demand. Durabuild products are manufactured as per stringent national/international quality standards and are guaranteed against any manufacturing defect. All products are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request.

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