

HYDROPLAST 100

Complete High Performance Water Reducing Super-plasticizer

Product Description:

HYDROPLAST-100 is a high performance, liquid, water-reducing “plasticizer” admixture formulated to improve workability, reduce permeability and improve durability. Once incorporated in the mix, HYDROPLAST-100 is adsorbed on the cement particles’ surface inducing a powerful deflocculating property, effectively reducing the concrete mixing water demand and improving physical and mechanical properties of the resultant concrete. HYDROPLAST-100 is based on a blend of SNF and organic modifiers designed with the main purpose of reducing workability loss.

Primary Uses:

HYDROPLAST-100 is typically used to produce:

-) Ready mixed concrete
-) Precast concrete
-) Used in concrete where delayed setting and extended workability are desired.
-) Mass concrete pours.
-) Long distance transportation of concrete.
-) Pumped concrete.
-) Hot weather concreting.
-) All concrete works where good workability and increased waterproofing properties are required. Such as: swimming pools, sea walls, tunnels, bridges, basement, etc.

HYDROPLAST-100 has been incorporated in concrete used for

-) All types of high rise construction
-) Large sea ports and dams structures
-) Pre-stressed beams
-) Foundation piles
-) Diaphragm wall
-) Towers and chimneys
-) Tunnel linings
-) Irrigation canals

Advantages:

-) Reduced mixing water while maintaining same workability.
-) Improved workability & pumping properties.
-) Improved physical & mechanical properties.
-) Improved surface finish.
-) Improved cohesion minimizes risk of segregation, bleeding and creep.
-) Denser concrete improves waterproofing properties and protection of reinforcement steel against detrimental water-borne ion attack.
-) Water-based, non-flammable, non-toxic.
-) Chloride-free; suitable for pre-stressing.
-) Specially formulated for hot weather concreting.
-) Increased compressive and flexural strength.

Standards:

HYDROPLAST-100 is formulated to comply with all the requirements of:

-) ASTM C- 494, Type A
-) EN 943, Part 2, Tables 1 and 2

Technical Properties:

Appearance:	Dark brown liquid
Specific Gravity:	1.175 ± 0.005 at 20° C
Chloride content:	Nil
Additional air-entrainment:	Less than 1 %
Water-reduction:	10-15 % of mixing water
Permeability:	Reduces concrete porosity, improves waterproofing and durability.
Compressive strength:	Increased early and ultimate compressive strengths
Cohesion:	Improved cohesion reduces risk of segregation
Compatibility:	Compatible with all types of Portland cement including Sulfate Resisting Cement (SRC)

Dosage Range:

Dosage is influenced by cement type, mix design; quality of used materials, ambient temperatures and other specific requirements, so site trials should be carried to determine the optimum dosage.

Dosage: typically 1-2% by the weight of total cementitious content (1-2 kg for 100 kg of cementitious material) Hydroplast 100 is packed in 25litres keg, 210 litres drum

Dispensing:

HYDROPLAST-100 should be added with the last third of mixing water or immediately after complete mixing water addition. Do not add directly to the dry mix or cement. For proper administration an automatic dispenser should be used.

Overdosing:

An overdose of HYDROPLAST-100 may result depending on dosage in an increase in workability and extension of setting time. Overdosed concrete must be protected against direct sun light and water evaporation

Limited Warranty

All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty either expressed or implied. User shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk and liability resulting from his or her use of the product. Nothing contained in any supplied materials relieves the user of the obligation to read and follow the warnings and instruction for each product as set forth in the current Technical Data Sheet, product label and Safety Data Sheet prior to product use away.

Armorsil Manufacturing supplies products that comply with the properties shown on the current datasheets. In the unlikely event that products supplied are proved not to comply with these properties, then we will replace the non-compliant product or refund the purchase price. Armorsil Manufacturing does not warrant or guarantee the installation of the products as it does not have control over the installation or end use of the products. Any suspected defects must be reported to Armorsil Manufacturing in writing within seven working days of being detected.

Armorsil Manufacturing. Makes no warranty as to merchantability or fitness for a particular purpose and this warranty is in lieu of all other warranties express or implied. Neither seller nor Armorsil Manufacturing shall be liable to the buyer or any third person for any injury, loss or damages of any sort including remote or consequential damages, down time, or delay directly or indirectly resulting from use of or inability to use the product. . The information contained in the latest data sheet supersedes all previously published editions. Visits to site by Armorsil personnel do not constitute supervisory responsibility. Armorsil reserves the right to alter the information contained in this datasheet without prior notice



ARMORSIL MANUFACTURING INCORPORATION

) 4636 Chestnut Street, Philadelphia, Pennsylvania 19139 . Tel : +1 209 813 246 +1 415 670 9521
) www.armorsil.com, info@armorsil.com, sales@armorsil.com