

# HYDROPLAST 50

## Super-plasticizer for Masonry Block and Paver Industry

### Product Description:

HYDROPLAST-50 is a high performance, liquid, water-reducing “plasticizer” admixture formulated to improve the cohesiveness of wet and semi-dry mortar and concrete used for masonry block making and paving stones. Once incorporated in the mix, HYDROPLAST-50 has excellent air entrainment properties which controls the amount of microscopic air bubbles and increase the cohesion of wet or dry mix mortar or concrete. It is specially researched for the manufacture of block and paving stones.

### Primary Uses:

HYDROPLAST-50 is typically used to produce:

- Block works
- Interlocking Paving Stones
- Paving slabs

### Advantages:

- Reduced mixing water while maintaining same workability.
- Improves the early strength of block and paving stones.
- Improved physical & mechanical properties.
- Reduces permeability in mortar and increases durability
- Improved cohesion, minimizes risk of segregation, bleeding and creep.

### Standards:

HYDROPLAST-50 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:	10-20 % of mixing water
Setting Times:	No effect at the recommended dos ages.
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. In a situation of overdose, this may lead to delay in setting time but ultimately result in higher strength.

## Dispensing:

HYDROPLAST-50 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 shall be used.

## Overdosing:

An overdose of HYDROPLAST-50 may result depending on dosage in an increase of workability and extension of setting time. Overdosed concrete must be protected against direct sun light and water evaporation.



**ARMORSIL MANUFACTURING INCORPORATION**

4636 Chestnut Street, Philadelphia, Pennsylvania 19139. Tel: +1 209 813 246 +1 415 670 9521

[www.armorsil.com](http://www.armorsil.com), [info@armorsil.com](mailto:info@armorsil.com), [sales@armorsil.com](mailto:sales@armorsil.com)

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