

HYMIX G-500

Workability Retention, High Range Water Reducer and Superplasticizer Admixture for concrete.

Description:

HYMIX G-500 is a chloride free, brown liquid , high range water reducing and superplasticizer concrete admixture . workability retention admixture based on selected organic polymers which instantly disperse in water, it disperses the fine particles in the concrete mix enabling the water content of the concrete to perform more effectively.

Uses:

HYMIX G-500 is recommended for all cement types in the following areas:

- Ready to use concrete.
- Heavily reinforced concrete works.
- Slabs and foundations
- Paving and industrial floors.
- Fluid concrete for long maintenance of slump.

Compatibility:

COMPATIBILITY WITH CEMENT:

HYMIX G-500 is compatible with all types of Portland cements and sulphate resistance cements type (V).

COMPATIBILITY WITH OTHER ADMIXTURES:

can be used with other hybuild admixtures in the same concrete mix .

All admixtures should be added to the concrete separately and must not be mixed together prior to addition.

The resultant properties of concrete containing more than one admixture should be assessed by trial mixes.

Advantages:

- Gives increased working life to fresh concrete.
- Increases workability without extra water, reducing placing time and costs.
- Improves cohesion, minimizing segregation and improving surface finish .
- Aids pumping by improving cohesion and reducing workability loss.
- Allows a reduction in water/cement ratio, enhancing durability by producing low permeability concrete with reduced shrinkage cracking potential.
- Chloride free, safe for use in pre-stressed and reinforced concrete.
- Can be used with concrete containing micro silica and other cement replacements .

Standard Compliances:

- It complies with BS 5075 Part 3
- And ASTM C 494 Type G .

HYMIX G-500

Technical Properties:

- | | |
|---------------------------|-------------------------------------|
| • Appearance | • Dark Brown liquid |
| • PH | • 5:8 |
| • Specific gravity | • 1.16 ± 0.02 Kg/Lit. @ 25°C |
| • Chloride content | • Nil |

Dosage:

The optimum dosage should be determined by site trials with the particular concrete mix under ambient conditions.

As a guide, the dosage will fall into one of two ranges dependent on use :-
0.6 - 1.8 % of cementitious material .

Over Dosage:

Over dose of HYMIX G-500 lead to :
Long workability time and affect the setting time .

Exact dosage and workability loss rates are dependent on the type of cement , quality of cement & aggregates, water/cement -ratio and temperature .
It is recommended that concrete should be properly cured particularly in hot and dry climates .

Concrete Placing:

The standard rules of good concreting practice concerning production and placing must be followed.

Packging:

Available in 20 liters. Plastic pails, 210 liters drums and 1000 liters bulks.

Storage & Shelf-Life:

Approx. 12 months in dry shaded conditions in its original closed bags.

Health and Safety:

HYMIX G-500 is non-toxic, non- corrosive and any splashes of the skin should be washed off with water, if contact with eyes occurs wash with water immediately and seek medical advice.

Fire:

HYMIX G-500 nonflammable.

Warranty HYBUILD CONSTRUCTION CHEMICALS warrants that:

- 1.Its products will perform substantially in accordance with the accompanying written materials for a period 1 year from the date of receipt.
2. The product will be free from defects in materials and workmanship under normal use for 1 year .
- 3.HY-Build 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.

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