

BUILDPLAST SUPER

Water reducing admixture / superplasticiser for concrete

DESCRIPTION : **BUILDPLAST SUPER** is a superplasticiser for producing high strength and free flowing concrete. It is a dark brown liquid based on specially selected organic polymers. It allows large reduction in water content whilst maintaining similar workability. Water reduction 20% and above is possible with **BUILDPLAST SUPER** depending upon the dosage. It is also used as an integral cement waterproofing compound for concrete.

STANDARD : Conforms to IS: 9103 and ASTM C494 Type F.

USES : **BUILDPLAST SUPER** is used in flowing concrete, pumped concrete, prestressed concrete as well as in industrial/commercial flooring and floor toppings.

FEATURES

- ❖ High workability
- ❖ Little vibration required
- ❖ Reduced permeability due to lower w/c ratio, enhance durability of concrete
- ❖ Higher early strength increases up to 40% with water reduction
- ❖ Reduced segregation with increased cohesion.
- ❖ Chloride free, safe in prestressed and reinforced concrete.
- ❖ Reasonable working life at elevated temperature.
- ❖ Economical, substantial cement saving is possible without strength or workability loss.

APPLICATION :

Suitable mix design as normally required for superplasticiser should be followed with **BUILDPLAST SUPER** for the particular requirement of strength, cost saving or flowing concrete of high slump concrete.

DOSAGE :

For flowing concrete : 0.5 – 1% by weight of cement
For high strength through water reduction : 1 – 1.5% by weight of cement.

Consumption of **BUILDPLAST SUPER** will increase in case of low w/c ratio.

Overdosing will result higher workability but may lead to some retardatio

Typical trial

Grade : M 20
 Sand : Zone III
 Cement : OPC 43 Grade

Test	Cement Content	Dosage of Buildplast Super	W/c	Slump		Comp. Strength (N/mm ²)		
				Initial	After 30 Minutes	After 1 Day	After 3 Day	After 7 Days
Control	360 Kg.	Nil	0.42	Nil	Nil	10	18	24
Increase in Workability	360 Kg	0.9% by weight of cement	0.42	90	60	12	22	29

TECHNICAL DATA

Colour : Dark brown
 PH : 7 - 8
 Specific gravity : 1.18 ± 0.02
 Chloride : Nil as per BIS 9103 & BS 5075
 Compatibility : With all portland & blended cements
 Setting time : Less than one-hour retardation at normal dosage
 Chemical basis : Sulphonated / Naphthalene-formaldehyde condensate/
 Polymer

Air entrainment : Less than 1%
 Shelf life : 12 months if kept unopened
 Storage condition : Store it under a shade
 Packing : 25 kgs. 250 kgs
 Health & safety : Non-toxic, non-inflammable and eco-friendly.