

## BUILDPLAST - SUPER

**Water reducing admixture / superplasticiser for concrete**

**DESCRIPTION :** **BUILDPLAST SUPER** is a 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** 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 retardation

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 <sup>2</sup> )		
				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.