

BUILDPLAST CORROBIT

Superplasticiser-cum-corrosion inhibitor for concrete

DESCRIPTION

BUILDPLAST CORROBIT is a superplasticiser for producing corrosion free and free flowing high strength concrete. It is a dark brown liquid based on specially selected organic polymers with built-in corrosion inhibitor. It allows large reduction in water content whilst maintaining similar workability. Water reduction 15% and above is possible with **BUILDPLAST CORROBIT** depending upon the dosage.

STANDARDS

BUILDPLAST CORROBIT complies with IS 9103 and ASTM C 494, type F

USES

BUILDPLAST CORROBIT 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
- ❖ Reduced segregation with increased cohesion.
- ❖ Chloride free, safe in prestressed and reinforced concrete.
- ❖ Protects concrete from chloride & sulphate attack
- ❖ 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 CORROBIT** for the particular requirement of strength, cost saving or flowing concrete or 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 CORROBIT** 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 Corrobit	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.