

## BUILDPLAST - WRA

### Water reducing admixture/concrete plasticiser

**DESCRIPTION :** **BUILDPLAST - WRA** is a high range water reducing admixture 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 - WRA** depending upon the dosage. It is also used as an integral cement waterproofing compound for concrete.

**STANDARD :** Conforms : ASTM C494 Type A & IS : 9103

**USES :** **BUILDPLAST - WRA** 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, self-compacting.
- ❖ Reduced permeability due to lower w/c ration
- ❖ Higher strength
- ❖ 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 water reducing admixtures should followed with **BUILDPLAST - WRA** 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 – WRA** will increase in case of low w/c ratio.

#### TECHNICAL DATA

Colour	:	Dark brown
pH	:	7 - 8
Specific gravity	:	1.14 ± 0.02
Chloride	:	Nil to BIS 9103
Shelf life	:	12 months if kept unopened
Storage condition	:	Store in under a shed
Compatibility	:	With all Portland cements.
Setting time	:	Less than one-hour retardation at normal dosage
Chemical basis	:	Naphthalene-formaldehyde condensation polymer.
Air entrainment	:	Less than 1%
Packing	:	250 kgs
Health & Safety	:	Non-toxic, non-inflammable and eco-friendly.