

Teba Adecuad S 30

High Range Water Reducing & Superplasticizing Admixture for Concrete

DESCRIPTION:

Teba Adecuad S 30 is a brown liquid, based on synthetic polymers that has a strong dispersing power over the fine particles of concrete and thus allows a higher mechanical resistance.

It is capable for higher water reduction in concrete (up to 25%).

It works on very low water/cement mixtures.

It can be used on site to boost up the workability of the concrete mixture to any extent without danger of delay in setting.

Suitable for use in hot conditions.

USES:

Teba Adecuad S 30 is used for all types of Portland cements in the following areas:

- ❖ High performance concrete.
- ❖ Precast concrete.
- ❖ Densely-reinforced concrete structures.
- ❖ Paving and industrial floors.
- ❖ Ready- mix concrete.
- ❖ All concrete requiring fluid consistency.
- ❖ Cement based injection grout.

ADANTAGES:

- ❖ High range water reducing (up to 25%) without cement reduction improves high early strength (up to 70% @24 hours) and the ultimate strength is also increased.
- ❖ Excellent plasticizer with increasing workability, reduces placing time, equipments and labour costs.
- ❖ Needs little or no compaction during placing.
- ❖ Free from chloride and other ingredients which promote the corrosion of steel reinforcement.
- ❖ Increases density and reduces permeability improves durability and reduces porosity.
- ❖ Increases cohesion, minimize bleeding and segregation.
- ❖ Compatible with sulphate resistant cement and marine aggregates.
- ❖ Suitable for use in Middle East and Arabian area conditions.
- ❖

STANDARD COMPLIANCE:

It complies with BS 5075 Part 3 and ASTM C 494 type F (High range water reducing admixture).

TECHNICAL PROPERTIES:

Appearance	Brown liquid
Specific gravity	1.18 ± 0.02 Kg/Lit. @ 25°C
Chloride content (BS 5075)	Nil
Air entrainment	Less than 1% additional air is entrained
Setting time	Less than 1 hour retardation at normal dosage

COMBATIBILITY:

COBATIBILITY WITH CEMENT:

Compatible with all types of Portland cements and sulphate resistance cements (type V cements).

COBATIBILITY WITH OTHER ADMIXTURES:

Teba Adecuad S 30 can be used with other **Rock 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.

INSTRUCTIONS FOR USE:

Teba Adecuad S 30 can be used on site to produce fluid concrete to a required workability. Make sure that the concrete is agitated for not less than 2 minutes at 15 - 20 rpm before casting. For high early strength of concrete, use a lower w/c and a higher **Teba Adecuad S 30** dosage.

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 range dependent on use:-

0.6 – 1.0 liter/100 Kg cement for flowing concrete.

1.4 – 2.5 liter/100 Kg cement for high strength concrete.

EFFECT OF OVERDOSING:

An overdose of **Teba Adecuad S 30** will result in the following:

- ❖ Increased workability.
- ❖ Slight increase in air entrainment.
- ❖ Slight delay of the initial and final setting of the concrete mixture.
- ❖ The ultimate strength of the concrete will not be impaired provided that adequate curing is maintained.

DISPENSING:

Teba Adecuad S 30 liquid should be dispensed directly into the mixing water or added simultaneously into the concrete mixer.

CONCRETE PLACING:

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

CURING:

As with all structural concrete, the surface must be cured immediately after drying by water spray, wet hessian or one of the teba Curing Products.

CLEANING:

Spillages of Teba Adecuad S 30 can be removed with water.

PACKAGING:

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:

Teba Adecuad S 30 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:

Teba Adecuad S 30 is nonflammable.