



TOUGH TP10

High effective plasticizer for controlled retardation

PRODUCT DESCRIPTION

TOUGHPLAST10 is a blend of refined Ligno Sulphonates and high molecular weight hydration control agents. TP10 is a highly effective plasticizer for ready mix concrete with high workability retention requirements. RP30B can transform plastic concrete into soft concrete without inn pairing the water/cement ratio, due to delayed initial and final set properties. RP30B is especially suitable for hot weather concreting.

Extended vibration limits and improved trowelability properties are reducing the incidence of cold joints. The surface finishing of concrete is improved. Concreting of areas where cold joints should be avoided.

AREAS OF APPLICATION

TOUGH TP 10 is specially designed for use in many aplications where additional workability, retention and improved compressive strengths are required.

- Hot weather concreting requiring control of initial set.
- Lower W/C ratios.
- Site botched concrete.
- Cement reduction and saving.

BENEFITS

- Suitable for use over a wide dosage range with low and high cement content mixes.
- Improved Pumpabilify & finishabilify.
- Enables concrete to be placed over extended delivery distances.
- Free flowing concrete can be produced to improve compaction and reduce areas of honey combing.
- Suitable for use over a wide dosage range with low and high cement content mixes.
- Increases pigment distribution and enhances colour.
- Increased cohesion in dry mixes and higher ultimate strength.

COMPATIBILITY

TOUGH TP10 is compatible with all types of Portland cements, SRC cements and other cementations materials including PFA, GGBS and microsilica. TOUGHPLAST10 is compatible with all SAS concrete admixtures.

All TOUGHBUILD admixtures should be added separately to concrete. Do not mix different admixtures prior to addition.

CONFORMITY

TOUGHPLAST10 confirms to following standard.

ASTM C-494- Type A & D, B.S 5075
— Part 1 ASTM C 1017



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TECHNICAL PROPERTIES

| | | |
|------------------|---|----------------------------|
| Septic Gravity | : | 1.11 ± 0.02@ 25°C |
| Appearance | : | Brown Liquid |
| Air Entrainment | : | 1 - 2% depending on dosage |
| Chloride Content | : | Nil - Tested to B.S. 5075 |
| Freezing | : | 0°C, Mix before use |

DOSAGE

Recommended dosage range 0.5 – 1.2 % of cement weight. The actual dosage rate applied can exceed the recommended dosage range on common mix design and should be determined in preliminary tests.

Further regulations on maximum dosage rates should be observed.

METHOD OF ADDITION

If the dosage rates of TP10 are higher than the noted above, will result in the following:

- * extended workability retention
- *Extended retardation of initial & final set
- * normal increase in air entrainment, providing that the concrete is properly cured the ultimate strength will not be normally adversely affected. in many cases ultimate strength will increase slightly, early strength will be lower than expected. depending on the degree of over dosage slight strength reductions may occur due to air entrainment

The effect of over dosage will be more noticeable in SRC cement. it is important to ascertain the reason for the over dosage to avoid repetition

HEALTH & SAFETY

TOUGH TP10 is non-hazardous. It is always advisable to avoid contact with skin or eyes. If contact with skin wash with water. Wear protective goggles and hand gloves while handling. If swallowed seek immediate medical attention.

PACKING & STORAGE

TOUGHplast 150 is available in 1000 Litre and in bulk to site installed storage tanks. it should be stored in cool, shaded warehouses. Shelf life is 12 months.

Before using, homogenize sample by shaking or mixing with a mixer.

After thawing, the product must be used after mixing.