

Ultplast G20

High performance superplasticizer for slump Retention and high strength concrete

PRODUCT DESCRIPTION

Ultplast G20 is a chloride free, superplasticising admixture based on selected sulphonated naphthalene polymers. It is supplied as a brown solution which instantly disperses in water.

Ultplast G20 disperses the fine particles in the concrete mix, enabling the water content of the concrete to Perform more effectively.

ADVANTAGES

- Major increasing in strength at early ages without increased cement content, particular benefit in precast concrete
- Makes possible major reduction in water cement ratio which allow the production of high strength concrete without excessive cement content.
- Improved cohesion and particle dispersion minimizes segregation, bleeding and improve pump ability

USES

- To provide excellent slump retention properties even in lower cement ration
- Particularly suitable for high strength concrete
- Significantly improve the workability ready mix concrete without increasing water demand
- To improved concrete durability by increasing ultimate strength and reducing concrete permeability

STANDARD COMPLIANCE

- Ultplast G20 confirms with BSEN 934-2 and ASTM C494 as Type A and G depends on dosage used.

DOSAGE

For high strength, high workability concrete the normal dosage range if from 0.5 to 3 % of cement weight.

Use at other dosages

Dosage outside the normal range quoted above can be used to meet particular requirements, contact Ultimate technical teams for advice.

Effect of overdosing

An overdose of Ultplast G20 will result in an increase in retardation as compared to the normally obtained. Provided that adequate curing is maintained, the ultimate strength of the concrete will not be impaired by increased retardation and will generally be increased

INSTRUCTION FOR USE

Mix Design

When the main requirement is to improve strength, Initial trial should be made with normal concrete mix design. The addition of admixture will allow the removal of water from the mix whilst maintaining workability. After initial trials minor modification to the overall mix design maybe made to optimize performance. The admixture should be added to the concrete with the mixing water to obtain the best result. Where high workability concrete required from normal workability concrete delivered to site, Ultplast G20 may also added to concrete direct into a ready-mix truck. Full blending of admixture and the concrete should be ensured by mixing at high speed for a period of at least two minutes.

PROPERTIES

Appearance	Brown Liquid
Specific Gravity (BSEN 934-2)	1.20 @ 22 ± 2 °C
Water soluble chloride (BSEN 934-2)	Nil to BS 5075
Alkali Content	Typically less than 40g. Na ₂ O equivalent/liter of admixture

COMPATIBILITY

Ultplast G20 is compatible with other Ultimate admixtures products except Polycarboxylate based ones used in the same concrete mix. All admixture should be added to the concrete separately and must not be pre-mixed together prior to addition. The resultant properties of concrete containing more than one admixture should be assessed by trial mix.

Ultplast G20 is suitable for use with all types of Portland cement and cement replacement material such as GGBS, PFA, SRC cements and micro silica.

Technical Support

Ultimate provide a technical advisory service for on-site assistance and advice on mix design, admixture selection, evaluation trials and dispensing equipment.

PACKAGING

Ultplast G20 is available in 25, 200, 1000 liters or bulk supply. For potential customers like Ready-Mix Concrete suppliers storage tanks can be supplied.

Storage

Ultplast G20 has a minimum shelf life of 12 months provided the temperature is kept within the range of 2 °C to 50 °C.

HEALTH AND SAFETY

Ultplast G20 does not fall into the hazard classifications or current regulations. However, it should not be swallowed or allowed to come into contact with skin and eyes.

Suitable protective gloves and goggles should be worn.

Splash on the skin should be removed with water. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediate.

IMPORTANT NOTE: ULTIMATE PRODUCTS ARE GUARANTEED AGAINST DEFECTIVE MATERIAL AND MANUFACTURE AND ARE SOLD SUBJECT TO ITS STANDARD CONDITIONS FOR THE SUPPLY OF GOODS AND SERVICE.