



AQUA PLAST 330™

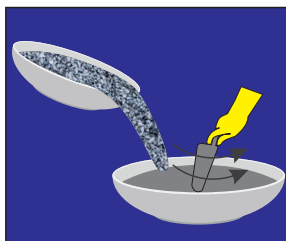
(Plasticizer For Concrete)

Aqua Plast 330 is liquid water reducing plasticizer based on refined lignosulphonates. It is a powerful plasticizer, which disperses and deflocculates the cement particles within a concrete mix. It can be used to improve workability, without the addition of extra water, or to allow reductions in free water content of the concrete mix retaining the same workability.

SPECIFICATION: ASTM C494 : Types A & D (depending on dosage). CRD-C-87 : Types A & D, BS 5075: Part I, Inst. F. Bautechnik BV, BIS:9103-1979

WHERE TO USE: To increase workability. To increase compressive strength. To effect cement economies. For hot weather concreting, work as coolant. In pre-stressed concrete. In areas of congested reinforcement where high workability is of benefit. In pre-cast concrete manufacture. Wherever reduced water contents would be of benefit for the sake of increasing impermeability. In hot weather concreting to extend workability.

HOW TO USE: Aqua Plast 330 should be added to the concrete mix during the mixing cycle at the same time as the water. Never add Aqua Plast 330 to the dry cement.



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DOSAGE: Field trials should be conducted to determine the optimum addition rates of Aqua Plast 330. A dosage range 280cc to 560cc per 100 kg cement is recommended as an initial starting point. For hot weather concreting where Aqua Plast 330 is to be used to extend workability, a dosage of 400cc to 500cc per 100kg cement is recommended.

ADVANTAGES:

- Significantly improves the workability, therefore ease in placing of concrete.
- Improves the cohesive properties of the concrete helping to reduce segregation and bleeding.
- Allows water reduction in the ratio of 10% which is achieved whilst maintaining workability, thereby increasing strength, durability and impermeability.
- Of particular benefit in hot climatic conditions when used to extend workability.
- It also works as a coolant.
- Enables economies in mix design by saving cement.

SIDE EFFECT OF OVER-DOSAGE: A severe over-dosage of Aqua Plast 330 will result in the following: Retardation of initial setting. Increase in air entrainment. Increase in workability. Provided concrete is properly cured, the ultimate strength of the concrete will not be adversely affected and will generally be higher than for normal concrete.

PRECAUTION: Aqua Plast 330 do not mix directly to dry cement mix.

PROPERTIES: Typical properties of Aqua Plast 330 are as Follows:

COLOR Dark brown/black, liquid.	AIR ENTRAINMENT 1-2% dependent on grading of sand and water content	SPECIFIC GRAVITY 1.19 + 0.02 at 20°C.
CHLORIDE & NITRATE CONTENT Nil	FREEZING POINT 0oC. Can be reconstituted if stirred after thawing	FLASH POINT None

SHELF LIFE:	PACKAGING:
12 months in packed containers if stored in dark, cool storage places.	Aqua Plast 330 is available in 20 210Ltr drums.

Corporate Office:

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AQUA PLAST 3005™

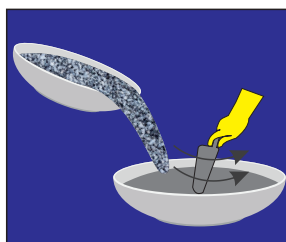
(High Performance Super Plasticizer For Concrete)

Aquaplast 3005 is a high performance multi-functional admixture to provide flow and workability retention specially formulated for blended cements and mixes with high percentage of OPC replacement by slag cement to provide high durability

WHERE TO USE: Aquaplast 3005 is specially designed for concrete grades up to M40 using OPC, PPC or high GGBS contents and manufactured sand.

It is also suitable for use in ready-mix concrete or site batching plants, precast industry mass concrete, marine or massive structures where the workability retention for a longer period is required. Properly designed concrete produces a very homogenous concrete which is easily workable without bleeding and segregation.

HOW TO USE: Aquaplast 3005 is to be added to the concrete during mixing. Do not add Aquaplast 3005 to the dry aggregate/cement mix. It is more efficient when dosed after about 70% of the mixing water has been added to concrete. Aquaplast 3005 is generally added between 0.8 to 2% by weight of cement for flow concrete depending on the workability and retardation requirement for individual job site. In certain cases due to variations of cement. Sand aggregates, weather or site conditions dosage may vary from recommendations.



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ADVANTAGES:

- Provides flow, workability and retention of concrete mix.
- Gives super plasticizing effect.

- Easy to use.
- Chloride free.
- Ideal for concretes up to 40 Mpa in strength.
- Provide excellent strength to the concrete.

PRECAUTION: Avoid contact with eyes, mouth, skin or food. In case of contact with eyes and skin, wash immediately with plenty of water. Reseal the containers after use. Do not reuse containers for storing consumable foods.

SHELF LIFE:	PACKAGING:
12 months in packed containers if stored in dark, cool storage places.	20, 100 & 200 Litres drum

TECHNICAL SPECIFICATIONS:

PROPERTIES	RESULT
Appearance	Dark Brown Liquid
Specific Gravity	1.1 to 1.2
pH	≥ 6.0
Chloride Content	<0.1%

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AQUA SATTER RELEASE MRA™

(Finest Way Of Shutter Removal)

Aqua Satter Release MRA is a chemical release agent suitable for mould and shutter faces prior to casting concrete in order to achieve a clean release. After release and after removal of the formwork, the resultant concrete has a smooth, hard, uniform finish with reduced incidence of blow holes. It can be applied to the formwork by spray in the form of a light uniform mist coating. Concentrated chemical mould release agent gives a high quality concrete finish economically and ensures a clean and quick release.

WHERE TO USE: Aqua Satter Release MRA is suitable for application on plywood, timber, steel and plastic faces of formwork and modules prior to casting concrete to achieve a clean and easy release.

HOW IT ACTS: Aqua Satter Release MRA reacts chemically with the cement in such a manner that the excellent release properties are imparted to the faces of treated moulds and shuttering. Concrete, cast with Aqua Satter Release MRA as the release agent, has a smooth, hard, uniform and light coloured finish. It does not affect the concrete in any deleterious manner. It may also be applied to rough sawn timber formwork when a grained effect is required. The adhesion of subsequent surface coating or renders is not affected by concrete treated with Aqua Satter Release MRA.

HOW TO USE: Light weight horticultural sprayers are ideal for Aqua Satter Release MRA as it is finely atomized to give a uniform, even coating. Excessive application should be avoided. Application may be made by a fine haired brush.

COMPOSITION: Low viscosity hydrocarbon carrier blended with a chemically active release agent.

ADVANTAGES:

- It gives better release properties and reduces the incidence of blow holes in the concrete face.
- It is non-standing and can be used on work employing white cement.
- It has a higher coverage than moulds oils due to its low viscosity.

- Aqua Satter Release MRA treated plywood and timber moulds are waterproofed, thereby preventing swelling and ensuring that there is no variation in the hydration of the cement. Steel modules are protected against rust and prolonged application will assist in the removal of existing rust.
- It may be applied to weatherproof moulds and shuttering. This application may be made some time before the moulds are required to use as the Aqua Satter Release MRA will still remain effective.

STORAGE: Store in cool and dry place away from direct sunlight.

PRECAUTION: Only a very thin coating should be applied. Any excess must be removed. If Aqua Satter Release MRA is completely absorbed into new timber or plywood after the first application, a further application should be made before filling the moulds or shuttering.

SHELF LIFE:	PACKAGING:
12 months from date of manufacturing in a tight sealed pack.	Aqua Satter Release MRA is available in 10, 20 & 210Ltr drums. Bulk deliveries are available on request.



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AQUA CURE WB™

(Curing Compound)

The **Aqua Cure WB** water based concrete curing compounds are liquid membrane type materials, available in several grades for specific purposes. All grades are basically composed of low viscosity wax emulsion which incorporate a special alkali reactive emulsion breaking system.

The Aqua Cure WB range provides a highly economical and efficient means of retaining the moisture and water in fresh concrete. The membrane film formed by Aqua Cure WB range prevents concrete from premature drying out and therefore enables the process of hydration to proceed under optimum conditions. As a consequence, the finished concrete has a harder, dust free surface whilst drying shrinkage and crazing (hair cracks) are reduced.

WHERE TO USE: Aqua Cure WB can be applied over all cement works where self curing is required for the necessary structures.

HOW TO USE: For horizontal surfaces, **Aqua Cure WB** should be applied by brush or spray as soon as the initial surface sheen has disappeared from the concrete face. In the case of formed concrete, the **Aqua Cure WB** should be applied immediately on removal of the formwork, i.e. at such time when the concrete is as green as possible. To assist breakdown of the **Aqua Cure WB** film on vertical and formed surfaces, it is essential to dampen down the concrete with clean water prior to the application.

CLEANING: All equipments should be thoroughly cleaned after use with water.

SUBSEQUENT SURFACE FINISHES: It is important that the complete removal of the Aqua Cure WB film should be ensured before the application of any subsequent surface finish. Breakdown of the Aqua Cure WB film commences after 30 days and it takes up to 6 months for total disintegration. As in all cases, it is dependent on a number of variables, such as thickness of film applied, the degree and severity of exposure to weather and traffic and the porosity of the surface.

ADVANTAGES:

- Extremely cost effective
- Gives clear water repellent film.
- Initial white colour shows areas of use. Depends on surface application.
- Pigmented compounds give solar reflective film.

COVERAGE: The generally recommended rate of application is 2 to 3 sq. meters per Ltr.

STORAGE: Store in normal & dry condition.

PRECAUTION: Presents no hazard. Low toxicity. In case of accidental ingestion do not induce vomiting. Give milk or warm water and seek prompt medical attention. Spillages can be absorbed with sand or earth and disposed off.

SHELF LIFE:	PACKAGING:
12 months in original sealed pack. Protect from frost. Stir pigmented compounds before use. Protect the drum from direct exposure to sun.	Supplied in 20 and 210Ltr drums.

TECHNICAL SPECIFICATIONS:

PROPERTIES	RESULT
Appearance	White flowable liquid
Specific Gravity	0.96-0.97
Flash point	Not applicable
Finished Film Appearance	Clear, tack free, water repellent film.

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