

ISOTEC SD301[®]

Plasticizer For Semi-dry Mixes

ISOTEC

FEATURES

ISOTEC SD301[®] is a liquid plasticizer designed for use in semi-dry concrete, to improve workability and cohesiveness whilst permitting a reduction in the free water cement content. Addition of ISOTEC SD301 will subsequently permit improvements in compressive strength and surface finish.

ISOTEC SD301[®] combines the effect of deflocculating materials which aids cohesion producing optimum response to the intense vibration/compaction cycles found in block, brick, interlocking pavers and tile manufacture. This ensures the cement is more widely and evenly distributed maximizing hydration and strength potential, producing a more uniform texture and smoother cement rich appearance.

ISOTEC SD301[®] is formulated from carefully controlled materials and is a blend of natural and synthetic raw materials, producing a consistent product.

Advantages

- More uniform texture.
- Allows high water savings.
- Increases the strength development of concrete.
- Effective in both air and steam cure conditions.
- More uniformed color for pigmented mixes.
- Good surface finish, providing highly aesthetic concrete appearance.
- Increases concrete workability and facilitates its compaction.
- Enhanced productivity.

Application

ISOTEC SD301[®] is suitable for the following applications:

- IMCP for gardening/ landscaping.
- Pavers and patio slabs.
- Hollow core slabs.
- Concrete roof tiles.
- Curbs.
- Concrete pipes.
- Segmental retaining walls.

Technical DATA

Nature	Liquid
Specific Gravity	1.17 ± 0.02
pH	7.5 ± 2
Chloride content	Nil

Packaging

ISOTEC SD301[®] is available in IBC and other pack size.

Standard specifications

Complies with the requirements of BS EN 2-934

Dosage

The required dosage depends on the concrete design and varies typically between 2 – 0.2 % of the cement weight.

ISOTEC SD301[®] should be added with the water before mixing the concrete. Dosages outside this range as well as blending with other admixtures can be used to produce particular mix requirements. After laboratory trials to obtain desired level of performance and benefits. It should not be added directly to the cement. No extension of normal mixing time is necessary.

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Overdosing

An overdose of **ISOTEC SD301[®]** will result in a significant increase in retardation. However provided that adequate curing is maintained, the ultimate strength of the concrete will be maintained or increased.

Compatibility

ISOTEC SD301[®] is compatible for concrete designs containing OPC or SRC cement, micro-silica or silica fume, fly ash (PFA) and ground granulated blast furnace slag (GGBS).

When using other ISOTEC admixtures in the same concrete mixture, the products should be added separately and must not be blended prior to addition.

Using more than one admixture requires suitability and preliminary tests in order to ensure the required combination of its effects is attained.

Shelf Life

Approx. 1 year from date of production if stored properly.

Health, safety & environment

ISOTEC SD301[®] is not classified as hazardous according to the CLP regulations. See safety data sheet for further information.

Legal Notes

The information provided in this data sheet, are given in good faith based on our current knowledge and experience of the product when properly stored, and applied by professional applicator, and under normal conditions in accordance with the mentioned recommendations. In practice under actual site condition differences are such that no warranty can be issued nor any liability can be taken, arising out of any legal relationship whatsoever. The product must be tested onsite to check its suitability for the intended application and purpose



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