

PRODUCT DATA SHEET

Plastiretard

Set-retarding admixture

DESCRIPTION

Plastiretard is a set-retarding admixture that can be used with any type of concrete, screeds and mortars. When used in certain proportions, it behaves like a water-reducing admixture.

USES

Concreting during hot weather

The set-retarding effect of Plastiretard avoids a sudden rise in concrete temperature during setting and makes its use absolutely necessary

- When the temperature is high
- In the case of great-mass concretes : dams, etc.

Concreting rework

The long set retardation Plastiretard can cause makes it possible to rework concreting after it has been discontinued for several hours without any other precaution than a protection against drying.

Long-duration concrete transport

The use of Plastiretard allows trouble-free transportation of any concrete over long distances in any conditions (temperatures, risk of traffic jam).

Improvement of the workability

Plastiretard acting as a retarding plasticizer can be used for placing any types of concrete and more especially :

- When a greater workability is required,
- For pumped concrete,
- For as-stripped concrete (architectonic aspect).

CHARACTERISTICS / ADVANTAGES

Owing to its physicochemical action, Plastiretard has the following advantages :

On fresh concrete

- It improves the workability even though the quantity of mixing water is reduced,
- It shifts the beginning of the cement hydration ; the setting times are delayed and the consistence of the concrete can be extended. It preserves the fluidity during the period of time required for placing concrete,
- It delays and spreads the release of heat due to cement hydration.

On hardened concrete

- It improves the mechanical strengths,
- It increases the compactness and watertightness,
- It reduces the shrinkage and creeping.

APPROVALS / CERTIFICATES

Complies with EN 934.2 tab. 8

PRODUCT INFORMATION

Packaging	<ul style="list-style-type: none">▪ 200 lit drum▪ 1,000 litres IBC
Shelf life	36 months in original unopened packaging
Storage conditions	Store in a dry area in original packaging at temperatures between 5°C and 35°C. Protect from direct sunlight and frost.
Appearance and colour	Light brown
Density	1.18 ± 0.03
pH-Value	10 ± 1
Total chloride ion content	< 0.1 %
Equivalent sodium oxide	< 6.0 %

APPLICATION INFORMATION

Recommended dosage	<p>From 0.2 to 0.5% by weight of cement, depending on the required effect.</p> <ul style="list-style-type: none">▪ Between 0.15 and 0.25%: Plasticizing effect only▪ The dosage of 0.5% may be exceeded when setting has to be slowed for a long time. <p>Tests must be made with various contents under site conditions (especially the temperature) so as to determine the content needed to obtain the required result.</p>
Dispensing	Plastiretard is added in the gauging water or simultaneously poured with it in the concrete mixer.

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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PRODUCT DATA SHEET

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