

PRODUCT DATA SHEET

Sika® Plastiretard TM 100 C2 WR PK

Set-retarding admixture.

DESCRIPTION

Sika® Plastiretard TM 100 C2 WR PK is a set-retarding admixture that can be used with any type of concrete, screeds and mortars.

USES**Concreting in Hot Weather**

Plastiretard provides an effective set-retarding action that prevents a sudden rise in concrete temperature during setting. Its use becomes particularly essential:

- When ambient temperatures are high
- In large-mass concreting works such as dams and other massive structures

This controlled retardation helps reduce the risk of thermal cracking and ensures uniform setting.

Concreting Rework

The extended set-retardation effect of Plastiretard allows concreting operations to be resumed even after several hours of interruption. Reworking can be carried out without special precautions, provided that the concrete surface is adequately protected against drying.

Long-Distance Concrete Transportation

Plastiretard enables safe and trouble-free transportation of concrete over long distances. It maintains workability and setting control under varying conditions, including:

- High temperatures
- Delays caused by traffic congestion

This makes it ideal for ready-mix concrete operations and remote construction sites.

Improvement of Workability

As a retarding plasticizer, Plastiretard significantly improves concrete workability and placement. It is particularly recommended:

- When enhanced workability is required
- For pumped concrete applications
- For as-stripped (architectural or fair-faced) concrete where surface finish is critical

CHARACTERISTICS / ADVANTAGES**Effects on Fresh Concrete**

Plastiretard exerts a beneficial physicochemical action on fresh concrete, offering the following advantages:

- It improves workability even when the amount of mixing water is reduced.
- It delays the onset of cement hydration, resulting in extended setting times and prolonged concrete consistency. This allows the concrete to retain its fluidity for the duration required for proper placement.
- It delays and distributes the heat release associated with cement hydration, thereby reducing the risk of thermal stresses.

Effects on Hardened Concrete

The use of Plastiretard also provides significant benefits to hardened concrete:

- It improves mechanical strength development.
- It increases concrete compactness and watertightness.
- It reduces shrinkage and creep, contributing to enhanced long-term durability.

APPROVALS / STANDARDS

Complies with EN 934.2 tab. 8

PRODUCT INFORMATION

Chemical Base	Organic Polymer blend.
Packaging	05 ltr jerry can 20 ltr plastic can 200 ltr drum

	1000 ltr IBC Bulk supply in tanker is possible on demand
Appearance / Colour	Light brown to brown Liquid
Shelf Life	12 months shelf life from date of production if stored properly in undamaged, unopened, original sealed packaging.
Storage Conditions	Storage at temperatures between 5°C and 30°C. Protect from direct sunlight, frost and contamination.
pH-Value	≥ 4
Specific gravity	1.07 ± 0.02 at 23°C ± 2
Chloride Content	Nil (EN 934-2)

APPLICATION INFORMATION

Recommended Dosage	0.2 - 2 % by weight of cement, it is advisable to carry out trial mixes to establish the exact dosage weight required. Different dosages beyond the defined limits can also be used but trial mixes are mandatory prior to application.
---------------------------	---

BASIS OF PRODUCT DATA

All technical data stated in this Product 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

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

Sika Pakistan (Pvt.) Limited
141-CCA Phase IV, DHA
Lahore Punjab 54792
Pakistan
phone: +92 42 3569 4266 - 67
fax: +92 42 3569 4268
<http://pak.sika.com/>

Sika Pakistan (Pvt.) Limited
141-CCA Phase IV, DHA
Lahore Punjab 54792
Pakistan
phone: +92 42 3569 4266 - 67
fax: +92 42 3569 4268
<http://pak.sika.com/>