

## PRODUCT DATA SHEET

## Sika® Verzögerer VZ 2

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Retarder with plasticising side effect

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**DESCRIPTION**

Sika® Verzögerer VZ 2 is used to extend the workability time of concrete and achieve a softer consistency.

**USES**

- Larger monolithic constructions e.g. foundations
- Ready-mixed concrete
- Concreting in hot weather

**FEATURES**

Sika® Verzögerer VZ 2 causes:

- Better dispersion of the cement
- Temporary shielding of the cement against the mixing water

- Slower formation of the reaction products which lead to stiffness and hardness
- Slower heat development in the concrete

This causes in mortar and concrete:

- Easier and longer workability
- Lower temperature increase in the concrete
- Lower cracking tendency due to temperature stresses

**CERTIFICATES AND TEST REPORTS**

Complies with EN 934-2 Table 8 (retarder).

Contains only components according to

DIN EN 934-1:2008, Appendix A.1.

Utilised in concrete with alkali-sensitive aggregate according to Alkali Guidelines Part 1, 4.3.2, paragraph (2) or (3).

Can be utilised in all EC countries.

**PRODUCT INFORMATION**

|                            |   |
|----------------------------|---|
| Composition                | Phosphate / sucrose   |
| Packaging                  | Drum: 220 kg<br>Replacement container: 1000 kg<br>Bulk delivery: From 6 t   |
| Appearance and colour      | Fluid / colorless   |
| Shelf life                 | Minimum of 1 year shelf life in sealed containers.<br>Mix before using after longer storage times.                      |
| Storage conditions         | Protect against frost, strong sunlight and contamination.<br>Utilise clean tanks and containers when delivered in bulk. |
| Density                    | 1.08 g/cm <sup>3</sup> at +20°C   |
| pH-Value                   | approx. 9   |
| Total chloride ion content | ≤ 0.10 %  |
| Equivalent sodium oxide    | ≤ 5,0 %   |
| Recommended dosage         | 0.2 - 0.7 % of the cement mass  |

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September 2025, Version 01.01

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Reference values for the dosage of concrete with CEM I 42.5 R:

| Concrete temperature<br>[°C] | VZ 2 - dosage in [%] of the cement weight<br>for a concrete workability time of [h]: |     |     |     |    |
|------------------------------|--|-----|-----|-----|----|
|                              | 3  | 6   | 9   | 12  | 24 |
| 10                           | -  | -   | -   | 0,4 | -  |
| 15                           | 0,1  | 0,2 | 0,3 | 0,5 | -  |
| 20                           | 0,3  | 0,4 | 0,5 | 0,6 | -  |
| 25                           | 0,4  | 0,5 | 0,6 | 0,7 | -  |
| 30                           | 0,6  | 0,7 | -   | -   | -  |

The specified dosing quantities can be reduced by approx. 0.1% with CEM II and by 0.15 - 0.2 % with CEM III.

## Dispensing

Mix in simultaneously with the mixing water in the concrete mixture. The effect of Sika® Verzögerer VZ 2 is highly dependent on the cement type, the temperature and the water-cement ratio. Retarded concrete tends more to shrinkage cracks than non-retarded concrete. Therefore a careful and sufficiently long post-treatment is required.

## 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.

## APPLICATION INSTRUCTIONS

An initial test according to DIN EN 206-1 /DIN 1045-2 is required before utilisation and the DAfStb Guideline "Retarded concrete" must be observed.

## LOCAL RESTRICTIONS

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

## LEGAL NOTES

Any information or suggestions for use concerning Sika's products, which we either in writing or orally have given buyers or end-users of the product, have been given in good faith based on our own experiences and based on approved praxis and the technological and scientific knowledge on the time of giving such suggestions and information, which are given without any type of guarantees, and which do not lead to any further responsibility from Sika Danmark A/S, besides what is stated in the sales agreement in question. The buyer or end-user should themselves investigate or otherwise make sure, that our products are suitable for the use in question and further make sure that the products are kept and used correct and in agreement with the published rules and considering the actual conditions in order to avoid damages or less satisfactory results. Any order is accepted and any deliverance is affected according to the general terms of sales and delivery from Sika Danmark A/S, which are considered known and accepted, and which could be handed out when asked for. Our catalogues are not up-dated automatically. The present product data sheet is only for use in Denmark. Values stated in the present product data sheet should be seen as recommended, unless stated otherwise.

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