

PRODUCT DATA SHEET

SikaCem[®]-501 Crystalline TZ

Waterproofing and Plasticizing Admixture for Concrete

DESCRIPTION

SikaCem[®]-501 Crystalline TZ is a concrete admixture that combines the advantages of plasticizers and integral waterproofing agents.

USES

SikaCem[®]-501 Crystalline TZ is mainly used to make infrastructure concrete waterproof. Its use is recommended for swimming pools, reservoirs, exposed concrete structures, and, more generally, for all thin concrete walls in contact with water.

CHARACTERISTICS / ADVANTAGES

Waterproofing properties:

The waterproofing effect of SikaCem[®]-501 Crystalline TZ results from additional crystallization in the cement matrix and a hydrophobic action on pores and capillaries.

Plasticizing properties:

The plasticizing effect of SikaCem[®]-501 Crystalline TZ reduces mixing water by 10% to 15%. This leads to many advantages:

- Increased mechanical strength
- Improved workability and thixotropy
- Improved compactness resulting in better impermeability
- Better frost resistance.

PRODUCT INFORMATION

Packaging	25 kg pail
Colour	Grey powder
Shelf life	1 year in its original unopened packaging
Storage conditions	Store SikaCem [®] -501 Crystalline TZ in its well-sealed packaging, protected from moisture.
Recommended dosage	1% of the cement weight

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

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Reseal containers after use. Use in well ventilated areas and avoid inhalation. Consult the

Safety Data Sheet (SDS) for detailed information.

MIXING

SikaCem®-501 Crystalline TZ is added into the mixer at the same time as the cement. The mixing time is not changed. In cold weather, SikaCem®-501 Crystalline TZ slightly extends the setting time.

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
SikaCem®-501 Crystalline TZ
May 2026, Version 01.01
020701010010245533

SikaCem-501CrystallineTZ-en-TZ-(05-2026)-1-1.pdf