

PRODUCT DATA SHEET

Sikament® TP

INITIAL SET AND WORKABILITY EXTENDING SUPERPLASTICIZER AND WATERPROOFING ADMIXTURE FOR CONCRETE

DESCRIPTION

Sikament® TP is used as a highly effective water reducing agent and superplasticizer for the production of high quality concrete in hot climates. The dual action of Sikament® TP extends the workability and initial setting of high quality concrete whilst promoting later accelerated hardening and high early and ultimate strengths.

USES

Sikament® TP is used to produce high workability concrete for:

- Slabs and foundations
- Walls and columns
- Slender components with densely packed reinforcement
- Beams and ceilings
- Water-tanks, swimming pools

Sikament® TP is used where high early and ultimate strength being required such as:

- Pre-stressed concrete elements
- Concrete elements manufactured in precast factories, where rapid demoulding and early load application being required
- Bridges and cantilever structures

CHARACTERISTICS / ADVANTAGES

Sikament® TP provides the following properties :

- Substantial improvement in workability without increased water
- Initial set and workability extension in hot climates
- Accelerated hardening after setting
- Significant increase of early and ultimate strengths
- Especially suitable for concreting at elevated temperatures
- Increased watertightness
- Improved surface finish
- Reduced shrinkage and creep
- Chloride-free, does not attack reinforcement
- Increased resistant to wear and abrasion

APPROVALS / CERTIFICATES

Complies with ASTM C494-81 Type F & G

PRODUCT INFORMATION

Composition	Polymer Type Dispersion
Packaging	200 L/drum 1,000 L/tote or bulk
Appearance / Colour	Brown Liquid
Shelf life	12 months from the date of production If stored properly in undamaged, original, sealed packaging.

Storage conditions	Store in dry conditions, protected from direct sunlight at temperature between 5°C and 40°C.
Density	1.150 - 1.170 kg/L (at 25°C)
pH-Value	5.5 - 7.5 Approx.

APPLICATION INFORMATION

Recommended Dosage	600 - 2,500 cc per 100 kg. of cementitious. It is advisable to carry out trial mixes to establish the exact dosage rate required.
Compatibility	Sikament® TP is compatible with all types of Portland Cement, including S.R.C. type and Hydraulic Cement and also suitable for use with cement blends containing microsilica, slag etc.
Dispensing	Sikament® TP can be added to the gauging water prior to its addition to the dry mix or separately to the freshly mixed concrete at the batching plant or on site into the truck mixer. Automatic and accurate dispensing equipment is available from Sika.

IMPORTANT CONSIDERATIONS

Accidental overdosing of Sikament® TP causes and extension of the initial setting time, however, no excessive amount of additional air will be entrained. Accidental underdosing will result in reduced workability and normal cement setting times.

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.

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.

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 Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

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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