

PRODUCT DATA SHEET

SikaPlast®-1330 TZ

Mid-range water reducing admixture

DESCRIPTION

SikaPlast®-1330 TZ is a multi-purpose water reducer and superplasticizer, utilizing Sika's 'ViscoCrete' polycarboxylate polymer technology.

USES

SikaPlast®-1330 TZ may be used in both ready mix and on site batching applications:

- **As a plant added high range water reducer (High dosage range)**, to provide excellent plasticity, while maintaining slump for ~120 minutes with minimal retardation.
- **As a plant added mid range water reducer (Medium-dosage range)**, for pumped concrete flatwork and applications where superior finishing characteristics are required with low retardation levels.

SikaPlast®-1330 TZ is ideal for use with lean, harsh concrete mixes, and concrete containing, slag, fly ash or microsilica.

CHARACTERISTICS / ADVANTAGES

Water Reduction: SikaPlast®-1330 TZ can be dosed at low to medium quantities to obtain water reduction from 5-15% and will achieve water reduction up to 22% at high dosage rates.

High Plasticity: The superplasticizing action of SikaPlast®-1330 TZ provides highslump, flowing concrete that maintains excellent workability and may be placed with minimal vibration.

Extended Slump Life and Set Control: SikaPlast®-1330 TZ has been formulated to provide controlled and predictable extended slump life for periods of 90 to 120 minutes (depending on dosage) allowing good slump retention without significant loss in early strength development.

The combined high range water reduction and superplasticising action of SikaPlast®-1330 TZ provides the following benefits in hardened concrete:

- Higher early compressive strengths for earlier removal of forms and structural use of concrete.
- Higher ultimate strengths allow for greater engineering design flexibility and structural economies.
- Reduced water cement ratios produce more durable, dense concrete with reduced permeability.
- Highly effective plasticiser reduces surface defects in concrete elements and improves aesthetics appearance.

SikaPlast®-1330 TZ does not contain formaldehyde, calcium chloride or any other added chlorides and will not initiate or promote the corrosion of steel present in the concrete.

APPROVALS / CERTIFICATES

Complies with both ASTM C494 and EN 934 standard specifications for chemical admixtures for concrete.

PRODUCT INFORMATION

Composition	Aqueous solution of modified polycarboxylates.
Packaging	200 and 1000 Litre containers
Appearance / Colour	Dark brown liquid
Shelf life	12 months from date of production if stored properly in undamaged unopened, original sealed packaging.
Storage conditions	Store in dry conditions at temperatures between +5°C and +25°C. Protect from direct sunlight and frost.
Density	1.08 kg/litre
Recommended dosage	Dosage rates will vary according to materials used, ambient conditions and the requirements of a specific project. <ul style="list-style-type: none">▪ For general concrete applications (water reduction of 5 -15%): 0.4 – 1.5 % by weight of cementitious▪ For maximum water reduction: 1.5 - 2.5 % by weight of cementitious SikaPlast®-1330 TZ will retard the set of concrete when used at high dosages.
Compatibility	Combinations with other admixtures SikaPlast®-1330 TZ is highly effective as single admixture or in combination with many admixtures in the Sika System. Field evaluations are needed to determine, based on local materials, the proper dosage of air entraining agent that needs to be used. In certain instances, it may be possible to reduce the air entraining dosage rate by as much as half or less to achieve the desired air content in the concrete mix. Please contact your local Sika representative for more information and assistance. Combinations with microsilica SikaPlast®-1330 TZ is particularly well suited for use with microsilica, slag and fly ash because of its water reduction capability and superior slump control.
Dispensing	SikaPlast®-1330 TZ is added to the gauging water or simultaneously with it poured into the concrete mixer. For optimum utilisation of the high water reduction, we recommend thorough mixing at a minimal wet mixing time of 60 seconds. The addition of the remaining gauging water to fine tune concrete consistency may only be started after 2/3 of wet mixing time, to avoid surplus water in the concrete. SikaPlast®-1330 TZ can also be added directly to the freshly mixed concrete in the concrete mixer at the end of the batching cycle. Frozen SikaPlast®-1330 TZ Frozen SikaPlast®-1330 TZ may be used after it has been slowly thawed at room temperature and intensively mixed.

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

See legal notes.

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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