

## PRODUCT DATA SHEET

## Sika® Intraplast® ZT

## EXPANDING GROUT ADMIXTURE

## DESCRIPTION

Sika® Intraplast® ZT is a ready to use extra expanding grout admixture in powder form. It is non toxic and does not contain chlorides or other ingredients of corrosive nature.

By introducing micro bubbles into the mix, it produces wet volume expansion and increased fluidity without segregation.

It prevents premature setting and allows a reduction in the amount of gauging water.

## USES

Sika® Intraplast® ZT is special products for the grouting of prestressed cable ducts, bearing plate, tunnel linings and rock and soil anchoring.

## CHARACTERISTICS / ADVANTAGES

The use of Sika® Intraplast® ZT with the grouting mixture has the following advantages:

- Improved fluidity
- Good strength and adhesion properties.
- Increased cohesion
- High volume expansion in the wet state
- Durable and dense filling of all cavities
- Increased frost resistance
- Prolonged workability

## PRODUCT INFORMATION

Packaging	20 kg in plastic pail
Appearance / Colour	Powder / Beige
Shelf life	24 months from date of production if stored in unopened original container.
Storage conditions	Store in dry, cool, and shaded place
Bulk Density	~0.7 kg/L

## APPLICATION INFORMATION

Recommended Dosage	0.30 – 0.80 % of cement (by weight)
Typical Dosage	0.40 % to give unrestrained expansion about 4 % – 5 %

## APPLICATION INSTRUCTIONS

### APPLICATION METHOD / TOOLS

Depending on the type of mixer and purpose of the injection, the mixing time and the water / cement ratio must be in accordance with the requirements.

For pre-stressed concrete work, a mixing time of 3 minutes with a w/c ratio of 0.40 – 0.45 has been found to give the best results.

It is not recommended to add sand into the mix for prestressed concrete work as this may cause blockage during stressing process.

For the use in grouting or mixture containing sand or coarse aggregate, to achieve necessary expansion the dosage of Sika® Intraplast® ZT may be increased to 0.50 – 0.60 % by cement weight (depending on the expansion required and quantity of cement per m<sup>3</sup> of mortar / concrete).

#### Compatibility

Sika® Intraplast® ZT is compatible with Sikament series.

Please contact Sika Technical Service for further information

### IMPORTANT CONSIDERATIONS

- Sika® Intraplast® ZT is essentially a product for use by specialised enterprises working in the field of applied prestressing and grouting techniques.
- It is known that the properties of the grout can be significantly influenced by the mixing procedure, cement properties, addition of water, dosage of admixture and temperatures.
- For important work it is necessary to determine the most suitable procedure by means of preliminary site tests.
- High alumina cement is not recommended for use with Sika® Intraplast® ZT
- In case of pozzolanic cement is used, the dosage of Sika® Intraplast® ZT should be increased slightly in comparison to the use with Portland type I cement.
- To obtain optimum results (flowability, expansion, bleeding, etc) the suitable w/c ratio and Sika® Intraplast® ZT/cement ratio shall be determined through trial mixes.
- In the case of higher fluidity/flowability and/or higher compressive strength is required, Sikament series as superplasticiser can be added. In this case, optimum dosage of Sikament series shall be determined through preliminary trial mix.

## BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

### LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

### 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.

### 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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