

PRODUCT DATA SHEET

Sika® Intraplast® Z

Expanding Admixture For Injection, Mortar and Concrete

DESCRIPTION

Sika® Intraplast® Z is a powder injection, mortar and concrete admixture that produces wet volume expansion and increased fluidity without segregation by introducing micro bubbles into the mix.

USES

Sika® Intraplast® Z causes the cement mixture to expand before setting. The swelling is caused by extremely regular formation of densely distributed tiny gas bubbles consisting of inert hydrogen. Product is used generally following applications

- Prestressed cable ducts
- Rock and soil anchoring
- Bearing plates
- Pre-placed aggregates
- Tunnel linings

FEATURES

- Increased frost resistance
- Improved fluidity
- Increased cohesion
- Volume expansion in the fresh state
- Decreased amount of water in the mix

PRODUCT INFORMATION

Composition	Blends of specific inorganic ingredients		
Packaging	Pail	5 kg	*Refer to the current price list for available packaging variations.
Shelf life	12 months from date of production if stored properly in original and unopened packaging.		
Storage conditions	In dry conditions at temperatures between +5°C and +35°C. Protect from direct sunlight and frost.		
Appearance and colour	Powder , light brown		
Bulk density	0,95 ± 0,05 kg/l		Dry bulk

APPLICATION INFORMATION

Recommended dosage	%2 by weight of cement (1 kg Intraplast-Z for 50 kg cement)
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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.

LIMITATIONS OF USE

1. For pre-stressed concrete work, where mechanical batching is carried out, a time of 4 minutes with a Water: Binder ratio of 0.36 - 0.40 has been found to give the best results. The most effective mixing sequence has proven to be: water, cement and finally the admixture.
2. Sika® Intraplast® Z, is essentially a product for use by specialist working in the field of prestressing and grouting techniques.
3. It is known that the properties of the injection aid can be significantly influenced by the mixing procedure, cement properties, addition of water and sand and temperatures.
4. For important work it is necessary to determine the most suitable procedure by means of preliminary site tests

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

MIXING

Add directly to the cement/water mix in the mixer. Sand may be added as required.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be removed mechanically.

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 exact product data and uses.

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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