

PRODUCT DATA SHEET

Sika® Intraplast®-23 ID

EXPANDING GROUT ADMIXTURE

DESCRIPTION

An expanding grout admixture in powder form. By introducing micro bubbles into the mix, it produces wet volume expansion and increased fluidity without segregation.

USES

Sika® Intraplast®-23 ID is used to increase cohesion in cement grouts and is suitable for use in the grouting of:

- Pre-stressed cable ducts.
- Rock and soil anchoring.
- Bearing plates.
- Pre-placed aggregates.

- Tunnel linings.
- Pre-cast concrete elements.
- Tilt construction wall panels.
- Crack injection.

FEATURES

- Sika® Intraplast®-23 ID plasticizes the mix thus reducing the water consumption and improving the strength of the grout.
- Gas generated during setting distributes bubbles causing expansion to take place thus compensating for normal shrinkage. The initial retarding effect of Sika® Intraplast®-23 ID improves grout penetration, reduces water separation and bleeding.
- The expansive forces generated completely fill voids.
- Non toxic, non chloride.

PRODUCT INFORMATION

Packaging	40 x 225 gram per bag
Appearance and colour	Powder / Brownish Beige
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 +35 °C. Protect from direct sunlight and frost.
Bulk density	~0.7 Kg/liter

APPLICATION INFORMATION

Recommended dosage	0.45% by weight of cement (225 gram per 50 Kg cement). Other dosages may also be used depending on the specific working conditions. Trial mixes should be made with job materials to determine the optimum dosage required for a specified job requirement.
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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

- High alumina cement and cement containing high content of fly-ash are not suitable for use with Sika® Intraplast®-23 ID.
- To obtain optimum results (flowability, expansion, bleeding, etc) the suitable w/c ratio and Sika® Intraplast®-23 ID / cement ratio shall be determined through trial mixes.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

APPLICATION METHOD / TOOLS

- Mechanical mixing is necessary.
- Blend water and cement (water-cement ratio 0.32-0.40) until a homogeneous mixture is obtained.
- Add Sika® Intraplast®-23 ID directly to the mixture of water and cement, stirring continuously for 3-4 minutes until the desired fluidity is achieved.
- For pre-stressed concrete work, optimal results are achieved with a 3-4 minutes mixing time and water-cement ratio (w/c) of 0.32-0.40.
- Other work sequences and parameters may be used according to specific conditions.
- It is not recommended to add sand into the mix.

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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Product Data Sheet
Sika® Intraplast®-23 ID
January 2025, Version 01.01
021404021000000206

SikaIntraplast-23ID-en-ID-(01-2025)-1-1.pdf