

PRODUCT DATA SHEET

Sika® Intraplast EP

Injection aid



DESCRIPTION

Sika® Intraplast® EP is an injection aid admixture in powder form, with strong fluidification and expansion effect.

USES

Sika® Intraplast® EP is mainly used for injection work where tight filling and strong interface bond is required such as for:

- Anchor grouting
- Injection of prestressing cable ducts
- Injection of cracks in concrete repair work
- Injection of fissured rock and non-cohesive soils

CHARACTERISTICS / ADVANTAGES

Sika® Intraplast® EP improves dispersion of cement particles in water. Resulting injection grout is very easily pumpable even at a very low water/cement ratio. In addition, Sika® Intraplast® EP contains expanding agents, which act in form small, uniform gas bubbles ensuring integral tight filling of cavities. Subsequent advantageous properties are achieved by product using:

- good compressive and bond strengths
- low bleeding
- outstanding tight contact between grout and surrounding surfaces
- long workability of injection grouts
- reduced hardening times with low w/c ratio

Sika® Intraplast® EP does not contain chlorides or any other ingredients which promote corrosion of steel. It is therefore suitable for use in reinforced and prestressed concrete structures.

APPROVALS / CERTIFICATES

Admixture for grout for prestressing tendons according to EN 934-4. DoP No. 86941776, certified by Factory Production Control Body No. 1020, certificate of conformity of the factory production control No. 1020-CPR-020041819 and provided with the CE-mark.

PRODUCT INFORMATION

Composition	Mixture of selected dispersing and expanding agents
Packaging	Non-returnable packaging (cardboard box) containing 40 × 0.5 kg
Appearance / Colour	Brownish powder
Shelf life	12 months from date of production

Storage conditions	Storage in undamaged, unopened, original sealed packaging, at temperatures between +5°C and +30°C. Protect from direct sunlight and contamination. Product is not frost sensitive.
Bulk density	~ 0,85 kg/litre (at +20°C)
Total chloride ion content	≤0.1 M.-%

APPLICATION INFORMATION

Recommended dosage	0.8 - 1.0 % by weight of cement/binder
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APPLICATION INSTRUCTIONS

MIXING

Injection grout is prepared by subsequent addition and mixing of water, cement and Sika® Intraplast® EP to the mixer. Order of addition must be kept. The addition of sand for injection work is not recommended.

FURTHER INFORMATION

Sika® Intraplast® EP is suitable for preparation of injection grout based on ordinary Portland cement (CEM I 42,5 or CEM I 52,5). Using with fly-ash based cements is not recommended.

IMPORTANT CONSIDERATIONS

- Sika® Intraplast® EP is suitable for ordinary Portland cement (CEM I 42.5), high strength Portland cement (CEM I 52.5) as well as for sulphate-resisting cement but may not be used with cements rich in fly ash
- Due to gas formation the final strengths are slightly reduced and the setting process is retarded.
- Sika® Intraplast® EP is a product designed to be used by contractors specialised in prestressing and injection work. It is known that the properties of the injection grout are distinctly influenced, among other things, by the mixing process, cement characteristics, water dosage, possible addition of sand and by temperature. For important projects, please consult our Technical Service. Take full advantage of water reducing capacity!

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 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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