

# DARAGROUT<sup>®</sup> 183 (EH)

Non-shrink grout admixture for use with injection grouts in pre-stressed concrete at increase of volume Additive for non-shrink grout acc. to EN 934-4:T2

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## Fields of Application

DARAGROUT<sup>®</sup> 183 (EH) is a grout admixture for injection grouts in pre-stressed concrete. Grout admixtures compensate the plastic shrinkage and settlement of the cementitious grout in the ducts containing the steel tendons and secure an effective bond between the tendons and the post-tensioned concrete structural members. Therefore, the protection against corrosion of the pre-stressed elements is secured. Further fields of application are the manufacture of highly flowable cement grout for injection into voids and with complete filling, e.g. in underground cavity and tunnel constructions, brickwork constructions, improving properties of the ground by consolidating cross injections, as e.g. underpinning of foundations, water sealing of dam projects (grout curtain), large field injections for waterproofing and compaction of the substrate of tunnels.

## Properties/Mode of Action

DARAGROUT<sup>®</sup> 183 (EH) allows to reduce the water demand of the fresh grout without affecting the consistency or immersion time compared to an unmodified mortar. By using the plasticizing effect of DARAGROUT<sup>®</sup>183 (EH), the fluidity of the grout is considerably increased so that the injection grout can flow even into the smallest voids and gaps. The bleeding of the injection grout is reduced considerably.

DARAGROUT<sup>®</sup> 183 (EH) will lead to an increase in volume of the injection grout before hardening and therefore compensates the natural settlement of the cement paste. Swelling proceeds slowly with little pressure so that the grout can encase all surrounding surfaces completely and fill the smallest voids. This will ensure bonding and prevent honey combing which is often the cause of corrosion.

The durability and the required load carrying capacity of the post-tensioned concrete member with the structure is ensured.

## Dosage and Use

The injection grout must be mixed mechanically with a suitable mixer. All substances must be carefully added according to their weight and should, as a rule, be added in the order water–cement–grout admixture. It is recommended to add the grout admixture after the cement lime has been premixed for 2 minutes. Mixing should be finished after 4 minutes at the latest.

If the grout is mixed too long, it is possible that under higher temperatures the grout may stiffen in the mixer. To prevent segregation of the grout and the formation of clusters, it must be constantly mixed in the storage container.

## Technical Data

Effective Component	aluminium powder
Form	powder
Homogeneity	homogeneous (tested acc. to DIN V 20000-101, annex A)
Colour	light brown
Dry material content	> 95,0 M.-%
Bulk Density	920 ± 20 kg/m <sup>3</sup>
pH-value	7.5 ± 1 (3% suspension)
Total chloride content	< 0.10 m.-%
Water-soluble chloride content	< 0.10 m.-%
Alkali content	approx. 0.5 m.-%
Storage	Keep dry and well closed in original containers.
Recommended Dosage	0.20–2.00 m.-% of cement
Delivery Form	25 kg sacks 25 kg boxes (50 bags per 500 g)
Physiological effect	May irritate skin and eyes. See SDS
Shelf-life	approx. 2 year in closed original containers

## Special Information

Suitable for use with injection grouts in pre-stressed concrete. When using non-shrink grout admixtures with chromate-reduced cements, there may be unexpected side-effects like a changed course of setting or hardening.

**Preliminary tests according to official national standards are always required before use!**

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