

# DARAGROUT<sup>®</sup> 181 (EH)

Non-shrink grout admixture for use with injection grouts requiring controlled increase in volume Additive for non-shrink grout acc. to EN 934-4:T2

## Fields of Application

DARAGROUT<sup>®</sup>181 (EH) is a grout admixture for injection grouts where controlled volume increase is required. Applications include: post tensioning of structures, underground cavity and tunnel constructions, underpinning of foundations, water sealing of dams (curtain wall grouting), grouting and waterproofing of joints in waterproofing constructions (injection by packers or injection hoses), and large field injections for waterproofing.

## 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	97,5 ± 2,50 m.-%
pH-value	7.5 ± 1 (3% suspension)
Total chloride content	< 0.10 m.-%
Water-soluble chloride content	< 0.10 m.-%
Alkali content	< 0.5 m.-%
Storage	Keep dry and well closed in original containers
Recommended Dosage	0.20–2.00 m.-% of cement
Dosage 0.20–2.00 m.-% of cement D	25 kg sacks; 25 kg boxes (50 bags with 500 g)
Delivery Form	25 kg sacks; 25 kg boxes (50 bags with 500 g)
Physiological effect	May irritate skin and eyes; see SDS
Shelf-life	approx. 1 year in closed original containers

## Properties/Mode of Action

DARAGROUT 181 (EH) reduces 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 181 (EH), the fluidity of the grout is considerably increased so that the injection grout can flow even into smallest voids and gaps. The bleeding of the injection grout is reduced considerably. DARAGROUT 181 (EH) will lead to a controlled 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.

## 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

Suitable for use with injection grouts in prestressed concrete. When using non-shrink grout admixtures with chromate-reduced cements, there may be unexpected side-effects such as a change in setting or hardening times. **Preliminary tests according to official national standards are always required before use!**

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GCP0082-1216 DARAGROUT-181-EH\_DE-EN

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Last Updated: 2025-05-13

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