

Admixture for injection grouts

## AREA OF USE

Cementol Injektin F3 is a powder admixture that improves the flowability and swelling of grouts, mortars, and concretes.

We use it to prepare:

- Grouts for prestressing tendons,
- Filling anchors,
- Refurbishment works,
- Filling enclosed areas, etc.

It does not contain chlorides.

## TECHNICAL CHARACTERISTICS

Characteristic	Declared value
Appearance	Brown-grey powder
Water-soluble chloride content [Cl <sup>-</sup> ]	Chloride free
Alkali content [Na <sub>2</sub> O equivalent]	It does not contain thiocyanates and sulphides

## COMPLIANCE

**Cementol Injektin F3** - chemical admixture for grouts for prestressing tendons, complies with the requirements of standards EN 934-1 and EN 934-4 / T2.

## ACTION

Cementol Injektin F3 performs two functions. A gas is released in cement mixtures (as well as cement-lime mixtures), causing the mass to swell. This compensates shrinkage or causes slight swelling of cement or cement-lime mixtures with a suitable dosage. Therefore, grouts, mortars, and concretes appropriately fill the spaces in which they are installed.

It also acts as a superplasticizer, allowing it to be used to prepare suitable flowable grouts, mortars, and concretes with low water-cement ratios, reducing the risk of segregation and allowing for high strengths.

This is especially important in the preparation of grouts for prestressing tendons, where we must achieve the prescribed flowability rates and strengths using pure cement with larger specific surfaces and a maximum water-cement ratio of 0.44 in accordance with the EN 447 standard.

## DOSAGE AND INSTRUCTIONS FOR USE

The recommended dose is determined by the composition of the mixture:

0.2 – 0.4% by weight of cement	For grouts for injection of ducts for prestressing tendons or pure cement grouts
0.2 – 0.4% by weight of binder (cement + lime)	For cement and lime-based mixed grouts
0.4 – 1.0% by weight of cement	For mortars and concretes

Preliminary tests with cement, lime, and sand, as well as mixers that will be used for each individual injection case, must be performed to determine the optimal dosage.

It is dosed into a dry mixture of cement or binder and fillers, thoroughly mixed, and then mixing water is added to achieve the desired workability or flowability.

If the admixture cannot be mixed into the dry mixture for practical reasons, mix it with water and immediately add the dry components while mixing.

Grouts, mortars, and concretes prepared with Cementol Injektin F3 must be installed within 20-30 minutes of the addition of water.

## PACKAGING

20 kg paper bags

## STORAGE

- Store the product in a dry and well-ventilated place. Keep it away from water and moisture!
- A properly stored product has a shelf life of at least 2 years after the date of manufacture.
- The product may still be used after the date of expiry, but the characteristics important for the intended use have to be examined.

## HEALTH, SAFETY AND ECOLOGY

No special measures are required when working with Cementol Injektin F3. Follow the general instructions for working with chemicals: take care of cleanliness, do not eat, drink or smoke while working. After finishing work, wash hands thoroughly with water.

More information on safe handling and disposal of the product is available in the safety data sheet, which is provided on request, and is also available from the dealer or distributor where you purchased the product.

## WARNING

Instructions and recommendations are given based on examinations in our laboratories and experience to date. Due to specific conditions and work methods, preliminary tests are advised for every type of use, for each individual case of use of the product alone, or in combination with other admixtures.

Since we cannot influence the course of work, we cannot be held responsible for its quality!



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