

MONNELI ESPANSIL

Expansive Powder for Cement Mortar & Concrete Repair

Product Description

A powdered expansive additive which permits to prepare, according to the dosage, concrete with compensated shrinkage, chemically pre-stressed concrete, expansive cement mortars and concrete.

The expansive action of the product, which begins and finishes within 7-10 days of curing, varies according to the percentage of the product used, the water-cement ratio, the quality of cement, and the time and conditions of work and curing. This action eliminates the micro-cracks due to hydraulic shrinkage, at the same time increasing impermeability and mechanical resistance of concrete and mortars.

ESPANSIL's addition doesn't modify neither workability nor the setting time. A value of compression resistance is just a little bit higher in comparison with common concrete, so it can be negligible. But the very important property of expansive concrete that is pre-stressing which allows it to get higher values of pulling and flexure.

Uses

ESPANSIL is used to obtain non-shrinking and expansive mortars and concrete, where for the static reasons, the increase of volume is required. The principal fields of application are:

- Reinforced plasters for the structural consolidation of brick
- Reinforced concrete constructions
- Grouting of channels and rocky embankment reinforced concrete ceilings, consolidation of vaults, etc.

Instructions for Use

Surface Preparation

All surfaces must be clean, free from oil, grease, water, paints, dust. The area should be cleaned with water before the application of grout. Any free water must be drained out.

Mixing

ESPANSIL should be added into the mixture with dosage of 6% of the cement weight (6 kg. per 100 kg. of cement) if non shrinking effect is required, and 8% (8 kg. per 100 kg. of cement) for the expansive action. Add the additive to the dry mixture, then add water and mix for about 5 minutes.

Cleaning

All used tools should be cleaned with water before the product cures.

Recommendation

- ESPANSIL is compatible with all types of cements Portland and Pozzolan. Besides it is compatible with all COLMEF's additives on condition that every additive is added separately in phase of mixing. To make the best of expansive additives, the proper curing is necessary.

Applicable Standards

- UNI 8148 – UNI 8149
- ASTM C 878-80

Consumption

6-8% of the cement's weight.

Packaging

ESPANSIL is supplied in 20kg polyethylene-lined bags.

Storage

Keep in a sheltered and dry place in closed packaging. In these conditions, the product maintains its stability for at least 6 months.

Health & Safety

Wear protective gloves and goggles during application. This product contains chemicals which may be potentially harmful to your health if not used properly.

It is strongly recommended to read the material safety data sheets for proper storage and to observe precautions.

If contact with skin or eyes happen, use resin cream to remove it from skin followed by clean water, do not use solvent. In case of contact with eyes, use clean water and seek medical consultation.

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