

DURAHIT® Expand-10

Item No. 3610

Expansion agent for permanent shrinkage reduction of hydraulic binders

FIELDS OF APPLICATION

DURAHIT® Expand-10 is a lime-based expansion agent for permanent shrinkage reduction of hydraulic binders.

DURAHIT® Expand-10 is suitable for the following applications:

- Flowing screed/ industrial floors
- High-performance concrete
- Repair mortar
- Grout
- Coating mortar
- Levelling compounds and grouts

DURAHIT® Expand-10 is easy to use. It can achieve the following benefits:

- Reduced hydration shrinkage
- Reduced drying shrinkage
- Reduced cracking
- Improved water impermeability
- Consistent strength
- Dense structure
- Increased resistance to chemical and physical attack
- Increased durability

DOSAGE

Recommended dosage range 0.5 – 5.0 mass-% of the cement content;
is equivalent to 1.6 - 16 g per kg cement.

Overdosage can lead to very strong expansion, reduced strengths, and high porosity and must be avoided.

WORKING PRINCIPLE

The calcium oxide contained in DURAHIT® Expand-10 hydrogenates to calcium hydroxide and thus achieves an expansion effect. This chemical pre-stressing counteracts shrinkage.

TECHNICAL DATA

Homogeneity	homogenous
Colour	grey
State	powder
Bulk density*	3.14 ± 0.10 g/cm ³
pH-value	11.5 ± 1.0
Workability	from + 1 °C
Shelf life	approx. 6 months from date of production if stored properly
Storage conditions	Store in unopened, original sealed packaging between +5 °C and +25 °C. Protect from frost and insolation. Protect from moisture.

* 5 % suspended in water

PROCESSING INDICATIONS

DURAHIT® Expand-10 should be added to the ready-mixed concrete.

The mixing time must comply with the regulations defined in EN 206-1.

This product is classified as hazardous according to the CLP regulations. See safety data sheet for further information.

PACKAGING

- 20 kg paper bags; pallet with 40 bags
- 1.000 kg Big Bags

REMARKS

This information describes the application- and processing possibilities of a product and its operation principles under regular conditions. Having no influence on the further application and processing, especially in conjunction with other construction materials, the given indication is neither a warranty in respect of the product's properties or its fitness for a particular purpose nor a full instruction of use. This information, any other recommendation or verbal advice are not binding and do not infer to any liability or legal demand.

Due to continuous further development, the most recent Technical Data Sheet is valid and will be supplied on request. All orders are accepted subject to our current general terms and conditions.

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SUITABILITY- AND PRE-TESTS ARE NECESSARY BEFORE APPLYING THE CONCRETE ADMIXTURE!