

Zinkbolt

Mortar for anchoring of hot galvanized bolts

PRODUCT DESCRIPTION

Zinkbolt is a thixotropic, cement based, non-shrinking dry mortar which expands 1 – 3% before setting.

Zinkbolt consists of Portland cement, aggregate with Dmax 0.5 mm, expanding, plasticising and stabilising additives.

AREA OF USE

Zinkbolt is specially developed for anchoring hot galvanized bolts.

Zinkbolt can be used for grouting fully cast-in bolts, not prestressed or combination bolts.

The different bolt types are described in more detail in "Håndbok i Fjellbolting" (Handbook of Rock Bolting) april 1994. The mortar requires only the addition of water.

The expanding component makes the mixture expand 1 – 3% whilst fresh.

This ensures that **Zinkbolt** completely fills the cavity in which it is placed, and fits closely around the bolt.

The mixture must be placed within 45 minutes of mixing to ensure maximum expansion.

DIRECTIONS FOR USE

Mix **Zinkbolt** using suitable mixing and pumping equipment, either a monopump or piston pump. It is very important not to use more water than is necessary.

The mixture should have a creamy consistency.

Remember: the more water used, the lower the resulting strength will be. Too much water also increases the risk of creep, which can result in poor anchoring.

Zinkbolt must be used at temperatures above +5°C.

SAFETY INSTRUCTIONS

For health, safety and environmental information, see separate HSE data sheet at www.resconmapei.com

WARNING

Although the technical details and recommendations contained in this product report correspond to the best of our knowledge and experience, all the above information must, in every case be taken as merely indicative and subject to confirmation after long-term practical applications: for this reason, anyone who intends to use the product must ensure

beforehand that it is suitable for the envisaged application; in every case, the user alone, is fully responsible for any consequences deriving from the use of the product.

All deliveries from Rescon Mapei AS are made in accordance with the sale- and delivery conditions applicable at the time, and these conditions are taken to be accepted on placement of an order.

N.B! FOR PROFESSIONALS

| TECHNICAL SPECIFICATIONS | | |
|----------------------------------|----------------|-----------------|
| <i>Compressive strength MPa:</i> | | |
| <i>Days</i> | <i>at +5°C</i> | <i>at +20°C</i> |
| 1 | 15.0 | 24.0 |
| 2 | 22.0 | 31.0 |
| 3 | 30.0 | 37.0 |
| 7 | 41.0 | 45.0 |
| 14 | 46.0 | 56.0 |
| 28 | 52.0 | 60.0 |

*Testing was performed on specimens 40 x 40 x 160 mm.
Amount of water used: 5,5 litres per 25 kg bag.*

*Zinkbolt has been tested with regard to permeability in the transition zone mortar-hot galvanized bolt in accordance with NS 3420 and ISO/DIS 7031 and it has been tested with regard to anchoring capacity for 18.5 mm hot galvanized rebar bolts in Zinkbolt with a value of 102.7 kN.
The tests were performed at Sintef FCB.
The results are available on request..*

Material consumption: 1.6 kg of dry mortar per litre of final mixture with water quantity of 5.5 litres per 25 kg of mortar.

Packaging: Zinkbolt is supplied in 25 kg bags.

Storage: Stored frost free in unopened packaging, product properties remain unchanged throughout the first 12 months.