



## **Fire protection of buildings**

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### **Instructions for the Application of Ordexal B Fire Boards**

#### **Intended use:**

Ordexal B system is designed to increase the fire resistance of concrete structures.

#### **Composition:**

Ordexal B system consists of mineral wool slabs Isover Pyro of 20 mm thickness and heat-resistant glue-cement Dexaflamm B. The slabs are glued in their full surface to the reinforced concrete structure by the heat-resistant cement.

#### **Material:**

Mineral wool slabs of 20 mm thickness, with nominal density 190 kg/m<sup>3</sup>, supplied in basic dimensions 500 x 1000 mm, pack of 10 pieces in foil.

The heat resistant glue-cement Dexaflamm B is supplied in 50 kg plastic barrels or 25 kg paper bags.

#### **Cement description and mixture:**

One-component powder cement and cement-based levelling compound. The cement is prepared by mixing the content of the barrel of dry mixture (50 kg) to about 12 litres of clean water by a stirrer, drill extender or mixer with forced mixing. The mixing time is 2-5 min. After mixing let the compound leave to stand for about 5 minutes and then mix briefly again. When mixing small quantities, observe the ratio of dry mixture and water.

Time of processability is about 90 minutes.

#### **Slabs processing:**

The slabs are cut by a circular saw with sintered carbide blade and extraction, a construction knife or a hand saw with fine teeth.

#### **Description of installation:**

Draw a baseline on the reinforced concrete ceiling (beam), from which the slabs will be glued. Prepare Dexaflamm B cement. Apply Dexaflamm B on the entire surface of Isover Pyro slab by a notched trowel. Use a notched trowel with the height and width of teeth 6 x 6 to 8 x 8 mm. The slab is then pressed by hands to the surface of the structure in the desired position. The slabs are installed in bonded rows with the minimum overlap of 150 mm. The slabs are butt joined close to each other and the joints need not be sealed. In case of gaps between the boards (1-5 mm), the joints can be sealed with cement, while larger gaps are filled with cut pieces of the slab.

**Pictorial instructions for the installation of Ordexal B slabs**



Inspect the slab and the tools used

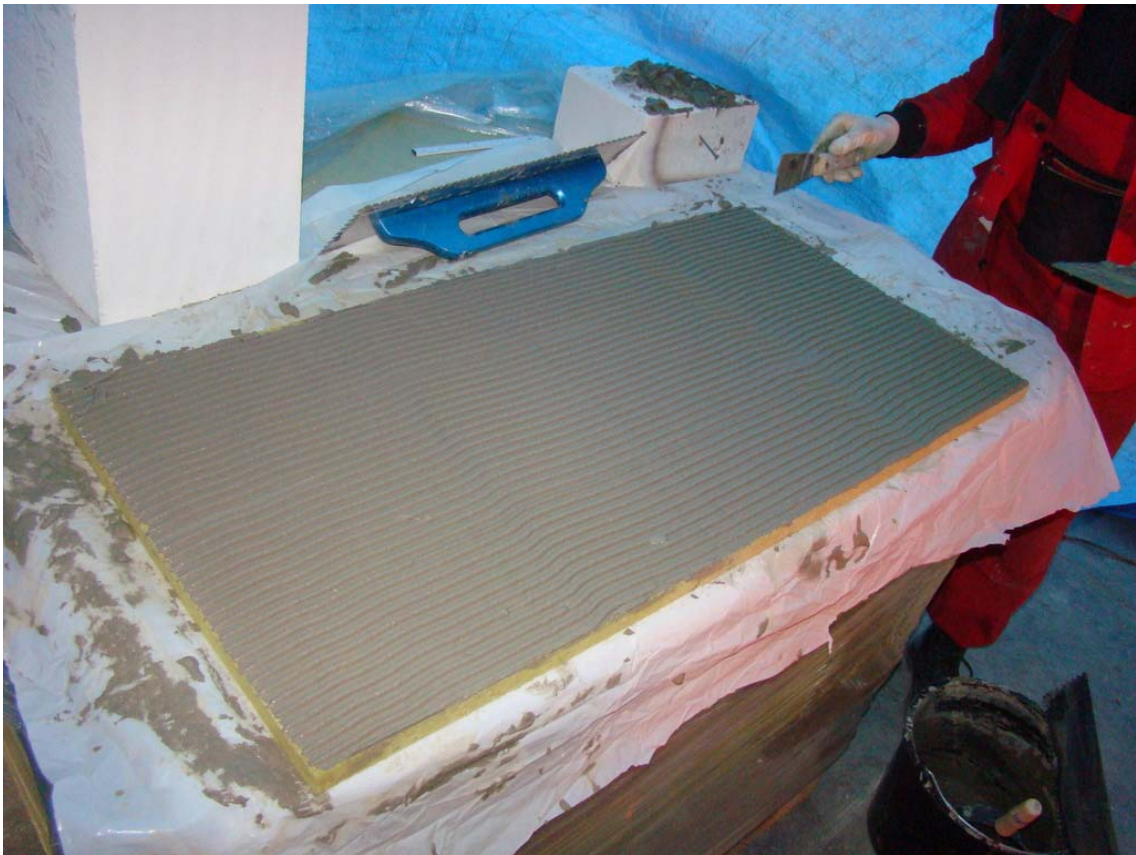


Prepare Dexaflamm B cement





Apply an adequate amount of the cement on the slab



Spread the cement with a notched trowel over the entire surface of the slab



Press the first board to the baseline and remove any excessive glue



Check the bonding over the entire surface - Dexaflamm B cement is slightly pushed out and visible





Installation of the first row of slabs - inspect the straightness of the row



Install other slabs by pressing them against the edge of the already installed slabs (the edges are not glued)



Check the system thickness, 20 mm slab, 3-4 mm layer of cement



Finished Ordexal B lining





In case of a beam, the sides are glued first



The flange is glued in the end.