

BETOTOP HRD

MEDIUM TO HEAVY DUTY FLOOR HARDENER



Product description

BETOTOP HRD is a ready-to-use factory premixed floor hardener, used in finishing of concrete floors. The product contains a blend of specially graded aggregates, additives and cements. Suitable for increasing the abrasion resistance of freshly laid monolith concrete floors and cement based estrichs. BETOTOP HRD can also be used to suppress steel fibres.

Features/advantages

- cost effective
- dust free
- easy to clean and maintain
- non slippery
- moderately abrasion resistant surface
- non-flammable
- non-rusting, surface requires no special treatment

Uses

- medium to heavy duty industrial floors
- stores and shopping malls
- workshops, warehouses
- logistic centres
- parking areas
- cold stores
- offices and multi-residential buildings

Technical specifications

BETOTOP HRD confirms to the requirements of EN 13813 screed materials.

compressive strength: $\geq 75 \text{ N/mm}^2$
EN 13892-2

flexural strength: $\geq 10 \text{ N/mm}^2$
EN 13892-2

Abrasion resistance: $5,0 \text{ cm}^3/50 \text{ cm}^2$
EN 13892-3

The abraded quantity of $5,0 \text{ cm}^3/50 \text{ cm}^2$ fulfills the criteria of Böhme class A5 set in EN 13813.

Coverage

Recommended application rate is 3 – 5 kg/m² depending on application.

Application instructions

BASE CONCRETE

New concrete should be formulated with minimum cement content of 280 kg per m³ concrete and with an aggregate suitable for the intended purpose. The water cement ratio should be kept to the minimum needed to produce a fully compacted concrete without excess surface water.

APPLICATION OF BETOTOP HRD

BETOTOP HRD is applied to new freshly laid concrete by dry shaking. For optimum results, sprinkling should take place in 2 stages, when applied manually. The first stage should be to apply two thirds of the coverage rate of the BETOTOP HRD, following removal or evaporation of surface bleed water. Once this application of BETOTOP HRD has absorbed all of the moisture, it should be floated using power trowels. Immediately after the first power float is complete, the second remaining part of the BETOTOP HRD should be applied and repeat troweling. A smooth, hard finish is then achieved by use of a power trowel float equipped with finishing blades.

CURING

BETOTOP HRD need to be protected against the quick evaporation after the polishing process. A curing agent should be applied immediately after finishing operation in order to avoid cracking.

Packaging

BETOTOP HRD is packed in 25 kg paper bags. When stored under cover in dry condition, the self life is 12 months. For special applications Betotop HRD is available in 1000kg BigBags.

Health and safety

As with all cementitious products the wearing of dust mask and gloves is advised.

Sales

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