

HARDOX MIX

Hydraulic binder with normal setting and fast drying for floor screeds.

Description

Fast-drying mortar, that acts as a substitute to cement (hydraulic binder) when creating floor screeds. It consists of special fast-setting cement and additives, that when mixed with sand and water a fast-drying, high strength screed is obtained.

It is suitable for filling, leveling and creating slopes on floors to be covered with tiles, marbles, natural stones, parquet, glued floors, floors with underfloor heating etc. for both indoor and outdoor applications. It is suitable for anchored and floating screeds. It has high final mechanical strength and excellent adhesion to the substrate. It is ideal for areas where rapid drying is required for the installation to be completed in short time and can be applied from 20 to 80 mm thickness per layer.

Advantages

- Excellent durability in harsh weather conditions
- Fast drying (12 hours)
- Quick installation of ceramic tiles coatings (24 hours)* completely dry in 4 days, for installing wood parquet and resilient flooring such as rubber, PVC, linoleum, etc.
- Smooth finish surface
- Ideal for quick levelling of new and old floors
- High mechanical strength
- Suitable for underfloor heating
- High adhesion to concrete
- Suitable for interior and exterior surfaces

WHERE TO USE

Internal and external floating and bonded screeds on old and new floor slabs, for laying wood, PVC, linoleum, carpet, ceramics, natural stone and any other type of floor covering where quick drying is required for short time laying of the floor covering.

Technical Specifications

Form: Cementitious powder

Color: Grey

Pot life: Approximately 60 min

Service temperature: -30 °C to +90 °C

Foot traffic: Approximately after 12 hours

Waiting time before application of the final cover: from 1 to 4 days, depending on the type of covering to be laid

Using 1:5 ratio of Hardox Mix and graded aggregates:

Days	Compressive strength	Flexural Strength
1	> 8 N/mm ²	> 3 N/mm ²
28	> 30 N/mm ²	> 6 N/mm ²

Residual moisture (thickness 5cm): After 24 hrs <4%.
After 4 days <2%

Consumption: ≈ 2,0-3,0 Kg/m²/cm layer

Substrate preparation

Can be used on any substrate as long as it is not subject to rising damp. If so, use a waterproof membrane like Aquasil Flex or Elastosil before application. For screeds that require anchoring, the substrate must be dry, without cracks, free of dust and loose particles, wax, oil, and gypsum or cement residues.

Mixture preparation

Can be mixed in:

- Rotating mixers
- Normal job site mixers
- Centrifugal mixers
- Automatic pressure pumps.

Mix one 20 kg bag with with approximately 100-120 kg of dry graded aggregates 0-8 mm in diameter (1800 kg/m³) and approximately 12 Lt of water until a homogeneous mix is obtained. The amount of water could vary depending on the moisture in the aggregate.

Instructions for use

The final product is applied easily, using the traditional methods for cement-based screed: preparation of levelling layers, casting and compacting of the mix, flattening and final smoothing with a float or mechanical means.

The mortar is applied/spread over the prepared substrate using screed guides and then tamped down using a steel trowel or float or a strip in order, to accomplish proper condensation. Following that,

appropriate leveling and smoothing is performed, using a trowel, to obtain the desired finish.

Note that the product must be applied and concentrated as quickly as possible and within 30 minutes from preparing the mixing. Ambient temperature affects curing and drying times.

Finishing of the screed by damping it with water often creates a low-absorption surface crust that tends to lengthen the screed drying time and worsen the performance of the adhesive

If a second layer is required, this should be applied after the first layer has fully hardened.

Application is not recommended under extreme solar radiation (temperature greater than 35 °C) or rainfall, or in periods when temperature is expected to drop below 5 °C. After use, remove material residues from tools using water while the product is still fresh.

Packaging

Heavy duty paper bags, 20 Kg each

Storage

Preferably in sheltered areas, protected from moisture, frost and direct sun exposure, for 12 months from the date of production and in the original sealed package.

Precautions and safety

The product contains cement and is classified as irritant. No special precautions are necessary for product application except for standard precautions applicable to all construction operations i.e. using gloves and goggles; preventing prolonged skin contact; etc. In case of eye contact, immediately wash with plenty of water and seek medical advice if necessary. Collect empty bags and plastic covers and dispose in refuse bins designated for this purpose. Consult instructions for safe use indicated on product packaging. For more information please refer to the material safety data sheet of the specific product.

Notes

Technical details, properties, recommendations and information on BAUER products are supplied in good faith. They are based on the company's research and experience, provided that they are stored and applied under normal conditions. As the method of using materials as well as project and environment conditions are beyond the control of the company in each individual application setting, the product user is held solely responsible for the result of application. No responsibility under any legitimate relationship can be substantiated against the company, based on the information set out hereunder. Product users are advised to refer to the latest revision of the technical manuals available.

Other information

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