

HARDOX LEVEL fast

High performance ready-to-use levelling mortar for screeds.

Description

Pre-blended ready-to-use mortar with normal setting, fast-curing and controlled shrinkage based on a special hydraulic binder and graded aggregates.

It is suitable for both indoor and outdoor applications for floor filling screeds, before installing the final cover in areas where rapid drying is required for the installation to be completed in short time.

Ideal for anchored and floating screeds. It has high final mechanical strength, excellent adhesion to the substrate and is very easy to install and to create floor slopes. It is suitable to be applied from 10 to 80 mm thickness per layer.

CLASSIFICATION. Screeds according to the specifications in this Technical Data Sheet are classified as CT – C30 – F6 in accordance with European Standard EN 13813.

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

Bulk density of dry mortar: $\approx 1,70$ Kg/L

Bulk density of fresh mortar: $\approx 2,00$ Kg /L

Water demand: 2,5 Lt / 25 kg

Pot life: Approximately 60 min

Service temperature: -30°C to $+90^{\circ}\text{C}$

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

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

Compressive strength: > 30 N/mm² after 28 days

Flexural strength: > 6 N/mm² after 28 days

Consumption: $\approx 18-20$ 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 25 kg bag with 2,5 l of water until a uniform and homogeneous mixture is achieved (3-5min). Never vary the amount of water because this will weaken the mortar's final performance. The mix should have a semi-dry consistency.

Instructions for use

Hardox LEVEL Fast 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, 25 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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Qualitätsmanagementsystem

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