

HARDOX FLU 100

Fast setting, self leveling cementitious floor coating-leveling

Description

Fast- setting, self-leveling, polymer-modified compound, used for the smoothing and leveling surfaces. It can be applied at a thickness of 2-10mm. Hardox Flu 100 is an ideal substrate preparation for smoothing and levelling uneven floors, before installing coatings and floor coverings, with excellent workability, mainly for indoor use. It can also be used as final surface for residential storage areas, basement and lofts.

Advantages

- Easy to apply with pump or by hand
- Low shrinkage
- Excellent adhesion and high mechanical strength
- Rapid hardening and curing
- Hard, smooth and non-porous final surface
- Suitable for use on floors with underfloor-heating systems

Used to coat with

- Floor Carpet
- Marble, Natural stone
- Parquet, wooden floors
- Rubber, carpets
- PVC
- Resins
- Ceramic tiles of all types

Substrates

Concrete, cementitious screeds, mosaic, ceramic tiles, cement based adhesives and coatings

Technical Specifications

Form: Cementitious mortar

Color: Grey

Apparent specific weight: 1,5 Kg/dm³

Water requirements: 5,00-5.50 lt/25 kg

Pot life: 30 min

Setting time: ≥ 40 min

Application temperature range: +5 °C to +30 °C

Coat thickness: ≤ 10mm

Minimum time to foot traffic: after 3 hours

Consumption: ≈ 16 Kg/m² per cm of thickness

Time for coating:

ceramic tiles ≈ 12 hours - Parquet floor ≈ 24 hours

Compression strength:

24 hours: ≥10.00 N/mm²

7 days: ≥20.00 N/mm²

28 days: ≥30.00 N/mm²

Bending strength:

24 hours: ≥4.00 N/mm²

7 days: ≥5.00 N/mm²

28 days: ≥7.00 N/mm²

Slip resistance: S1

Fire classification: A1_{fl}

Substrate preparation

The substrate shall be free from dirt, oil or grease, and also free from loose or brittle materials.

Unsafe materials e.g. residues of cement mortars, lime, varnish, old paint etc. shall be thoroughly removed.

Smooth, low absorption or non - absorbent substrates shall be prepared using SUPER GRIP adhesion enhancing agent

Highly absorbent substrates such as concrete or cement screeds shall be primed using BAULAT

Mixture preparation

First, slowly pour 5,00-5.50 litres of water in a clean container. Then add progressively HARDOX FLU 100 in the container, stirring continuously by a helical mixer running at low revs. After mixing the mixture is ready for use. Using excess water will not improve material's workability; on the contrary, it may result in excessive setting shrinkage and reduction of final material performance in terms of surface hardness, adhesion and compressive strength.

Instructions for use

Pour HARDOX FLU 100 on the substrate in a single coat; spread using large notched squeegee or a caulking rubber spackle knife (T) mounted on extension rod to produce even thickness of spreading. The cement mortar is self - levelling; before setting starts, it must be treated with special pointed roller to facilitate the release of entrapped air. Also, HARDOX FLU 100 application is also possible using pump to ensure levelling of considerably thick coats in short time. If a corrective coat must be applied, this shall be carried out after foot traffic is possible on the previous coat (\approx 2-4 hours at 23°C, 50% relative humidity). It is necessary to spread HARDOX FLU 100 residues from tools by water, while the material is still fresh.

Notes and recommendations

- Do not mix HARDOX FLU 100 with other agents or additives.
- Minimum application temperature: + 5°C.
- It is not recommended to use HARDOX FLU 100 to fill substrate irregularities exceeding 10mm per coat.
- Excessive use of water will result in deterioration of final mechanical strength or setting speed.
- Before installing parquet or PVC floors, we recommend measuring residual humidity by suitable hygrometer.
- For the initial 12 hours, the material must be protected against exposure to direct sunlight and air drafts.
- When applying to floors that contain underfloor heating, expansion joints must be implemented at 25-30 m² intervals and angle caps must be placed to separate mortar from masonry and other components of the structure.

Packaging

Heavy duty paper bags, 25kg each.

Storage

Preferably in sheltered area, low in moisture, for 12 months from the production date and in the original sealed packaging.

Product Designation

HARDOX FLU 100 is categorized as CT-C30-F7-A1_n-S1 according to EN 13813.

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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Zertifiziert nach DIN EN ISO 9001

