



# HARDOX FLU 300

## Fast Setting, Self Levelling Floor Coating ranging between 1 - 30 mm

### Description

Fast-setting, self-leveling, polymer-modified compound, used for the smoothing and leveling of surfaces. It can be applied at a thickness of 3-30mm. Ideal before installing floor coverings such as tiles, carpet, plastic or wooden floor, marbles, natural stones etc. Suitable also for floors with under-floor heating.

### Used to coat with

- Floor Carpet
- Marble
- Natural stone
- Parquet, wood floors
- Rubber
- PVC
- Resins
- Textile cladding
- Ceramic tiles of all types
- Porcellanato, Gres
- Klinker
- Cotto
- Marble-styled ceramic granite
- Ceramic granite
- Raised floors, etc.

### Substrates:

- Concrete
- Cement mortars
- Building site concrete
- Mosaic
- Ceramic tiles
- Concrete bonding layers and the like
- Floors that contain under-floor heating.

### 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 **PRO 100**

### Mixture preparation

First, slowly pour 5.75 liters of water in a clean container. Then add progressively **HARDOX FLU 300** in the container, stirring continuously by a helical mixer

running at low revs. After mixing the preparation is ready for use. Using excess water will not improve material 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 of use

Pour **HARDOX FLU 300** 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 300** 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°, 50% relative humidity). It is necessary to spread adhesion improver. Clean **HARDOX FLU 300** residues from tools by water, while the material is still fresh.

### Notes & recommendations

- Do not mix **HARDOX FLU 300** with other agents or additives.
- Minimum application temperature: + 5°C.
- It is not recommended to use **HARDOX FLU 300** to fill substrate irregularities exceeding 30mm 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 m<sup>2</sup> intervals and angle caps must be placed to separate mortar from masonry and other components of the structure.

### Technical features

**Form:** Cementitious mortar

**Color:** Grey

**Apparent specific weight:** 1.2-1.3 Kg/dm<sup>3</sup>



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<b>Water requirements:</b> 5.75 lt/25 kg
<b>Pot life:</b> 30 min
<b>Setting time:</b> ≥ 60 min
<b>Application temperature range:</b> +5° C to +30° C
<b>Coat thickness:</b> ≤30mm
<b>Minimum time to foot traffic:</b> ≈ 4 hours
<b>Consumption:</b> ≈ 1.5 kg /m <sup>2</sup> per thickness mm
<b>Time for coating:</b> ceramic tiles ≈ 12 hours - Parquet floor ≈ 24 hours
<b>Compression resistance per E.N 13892-2</b> 24 hours: ≥18.00 N/mm
7 hours: ≥30.00 N/mm <sup>2</sup>
28 hours: ≥40.00 N/mm <sup>2</sup>
<b>Bending resistance per E.N 13892-2</b> 24 hours: ≥4.00 N/mm <sup>2</sup>
7 hours: ≥6.00 N/mm <sup>2</sup>
28 hours: ≥14.00 N/mm <sup>2</sup>
<b>Abrasion resistance BCA as per EN 13892-4:</b> ≈ ≥180 μm
<b>Adhesion as per EN 13892-8:</b> ≥1.5N /mm <sup>2</sup>
<b>Setting shrinkage as per EN 13872:</b> ≈ 0.15 mm/m

## Storage

Preferably in shady and roofed locations, low in moisture, for at least 6 months.

## Packages

Heavy duty paper bags, 25kg each. Bags are delivered on wooden Europallets weighing 1200kg, protected against humidity and rain through suitable plastic wrapper (stretch hood).

## Classification

It is classified as a screed material CT-C40- F10-AR4 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 used 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.