

# Brecoton HST *on concrete by customers*

## The economical heavy-duty industrial floor



### Technical data

#### Underground conditions

Concrete of C20/25 minimum quality according to DIN EN 206 (DIN 1045-2)

#### Installation conditions

Minimum temperature +5° C (at the installation site and at the mixing station) frost-free concrete sole. Roof and external facade rainproof and draught-free closed.

#### Daily work rate

**Brecoton HST:** 800 – 1,400 m<sup>2</sup>/day and team (depending on the area cut and the length of the access roads from the mixing station)

#### Installation thickness

Standard thickness 1.0 – 2.0 cm (larger installation thicknesses possible)

#### Planarity

Following the subfloor, if necessary: possible according to DIN 18202, point 5, table 3, line 3 possible according to DIN 18202, point 5, table 3, line 4 possible according to DIN 15185

#### Resistances of Brecoton HST

Resistant to water, fuels, mineral oils (other resistances on request)

#### Prismatic resistance of Brecoton HST

Compressive strength > 50 N/mm<sup>2</sup>  
Bending tensile strength > 6 N/mm<sup>2</sup>

#### Electrical conductivity

Between 10<sup>6</sup> and 10<sup>7</sup> ohm based on DIN EN 1081, no static charge According to Workplace Ordinance suitable for use in Zone 0, 1, 20 and 21 for areas exposed to explosion hazards (maximum permissible value: 10<sup>8</sup> ohm)

#### Thermal conductivity of Brecoton HST

1.4 W/(mK) shall be used as the calculated value

#### Flammability class of Brecoton HST

Class A1

#### Grinding wear

< 6 cm<sup>3</sup>/50 cm<sup>2</sup>

### System description

#### Cement-bound industrial floor

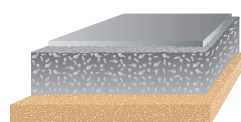
#### Surface




- non-slip, maximum grip
- natural grey (the surface texture is subject to handmade production and structural-physical influences)

#### Features & Benefits

- Seamless in the surface, if required, edge joints to form rising building components, building expansion joints must be secured with suitable joint profiles.
- High load capacity and high flatness
- Low shrinkage and low cracking
- Antistatic
- Water/fuel/mineral oil resistant (other resistances on request)
- **System solutions** possible in doorways, at transitions and connections to components with different foundations

### System structure



-  **Brecoton HST**
-  **Brecopac / concrete**
-  Existing base layer

### Areas of application

- Production plants
- Assembly companies
- Workshops
- Handling companies
- Waste sorting plants
- Print shops

# Brecoton HST

## Underground conditions

Concrete of C20/25 minimum quality according to DIN EN 206 (DIN 1045-2), surface free from slurry, separating films and loose components, dry, cured.

## Requirements for the subfloor

The quality of the reinforced concrete surface for the application of the **Brecoton HST** coating must, as with all other composite screeds, comply with DIN 18560, Part 5, Point 5.3 (Screeds in construction, load-bearing subfloors, load-bearing concrete).

It says, among other things: "In addition, the surface of the load-bearing concrete must have a rough and clean structure, be free of cracks, loose and friable components and suspended fines in order for it to bond with the screed. It must also not be contaminated by oil, paint, mortar residues, suspended slurry-like fine mortar residues (cement slurries) or similar."

DIN 18560 further states: "Concrete additives and after-treatment agents must not impair the adhesive strength between screed and load-bearing concrete. Joints in the load-bearing concrete must be straight and should be aligned. The width of necessary joints shall be kept as small as possible."

The compressive strength of the concrete base must correspond to the expected stresses. The reinforced concrete must be produced according to standards in a minimum quality of C 20/25.

Particular attention must be paid here to sufficiently good surface strength to dissipate shear forces. The joints are to be produced as dowelled press joints (no tongue and groove design). Brush surface is not recommended.

For the installation of the industrial floor, the concrete base is to be handed over by the customer clean swept, dry and cured.

## Substrate preparation

For the preparation of the substrate with the Blastrac steel shot peening unit or milling machine, the customer must provide a power supply via an installed Cecon 380 V/ 63 amp plug.

## Installation

**Brecoton HST** is used directly on the construction site from a mixture of sand, cement, high-grade chippings and a special hard material and installed with state-of-the-art laser technology.

A flat, fastened and passable mixing area of at least 300 m<sup>2</sup>, a power connection 63 A (fused with 80 A, if possible) and a ¾" water connection is required.

For the installation of industrial floors, a minimum temperature of + 5° C is required. At minus temperatures, it must therefore be guaranteed by the customer that this minimum temperature is maintained throughout the installation and curing period in the area of the surface to be installed and the mixing area – even at night.

For the installation it is necessary that the roof and the outer façade are closed rainproof and draught-free. Gates, doors and windows including glazing should be installed so that a draught-free installation surface can be guaranteed. Exposure to draughts and water should be avoided within the first 48 hours after installation.

## Installation technique

The mixes are generally produced on site using special compulsory mixers. The installation of the industrial floor is carried out by special strippers, which pre-compact the **Brecoton HST** evenly. A high degree of flatness and good planarity can only be achieved with these laser-controlled strippers. The final smoothing is carried out with rotating Duo smoothing machines.

## Drying and setting times

The drying and setting times of **Brecoton HST** are dependent on the substrate temperature, the substrate humidity, the air temperature and relative humidity.

At an average air temperature of approx. 20 °C and an average relative air humidity of approx. 65 %, the substrate can be walked on after approx. 1 – 2 days. After approx. 3 – 4 days, light lifting and driving devices can travel on the floor. The full load capacity is available after approx. 8 – 10 days.  
(Please consult the DFT site management)

## At the request of the client, the following additions to the service package can be offered:

- Initial cleaning and care with our **Latanol** products
- Surface connection to doors, gates, loading platforms or joint formation by installation of steel anchor plates



## DFT Deutsche Flächen-Technik Industrieboden GmbH

Allerkai 4 · 28309 Bremen, Germany

Phone +49 421 4583-290

Fax +49 421 4583-280

www.dft-bremen.de

info@dft-bremen.de

## PLEASE NOTE:

The technical data for the company's products have been compiled with the necessary care. However, any recommendations or suggestions supplied in relation to the use of these products are made without guarantee, as the conditions under which they are used are beyond the company's control. The customer himself is responsible to check whether the products are suitable for the respective application and whether the operating conditions for the respective product are appropriate.