

## TEQBASE - SUBBASE FOR TEQPLAN

Jointless, large load capacity, quality control



### THE IDEAL SUBFLOOR FOR INDUSTRY, LOGISTICS CENTERS, AUTOSTORES & VNA

Teqbase can be used in all types of industrial and warehouse facilities and is also highly suitable for robot and crane-based storage systems as well as Autostores.

## TEQBASE - SUB-BASE

### Areas of Application

Teqbase is used as a subfloor in all types of industrial and warehouse facilities and can, in many cases, serve as an alternative to reinforced concrete floors.

Teqbase is used as the subfloor for all types of Teqton wearing courses, as well as for tile coverings and marble-chip tiles.

We deliver:

- Complete industrial flooring systems
- Renovation of existing floors
- Cleaning and maintenance products for Teqton floors

### Teqbase - a system from the start

An industrial floor is not a typical commodity; it needs to fit various needs and demands that can only be pinpointed by means of personal consultancy and individual solutions. We offer you complete system solutions where sub-base, covering layer and surface treatment supplement each other to create high-quality results and functionality.

### The foundation is Teqbase

The low-waste sub-base Teqbase is made up by a mixture of selected high-quality fixing agents and a gravel-sand-mixture according to a fixed grading curve.

### We are critical of accuracy

In order to obtain the best result possible, we apply the latest laser technology in order to control the levelling electronics within our special machines for laying down floors. Following annealing, and in accordance with your wishes, we lay down a Teqton wear layer, also featuring a jointless surface, on top of the sub-base Teqbase. In this way, you avoid expensive expansion joints.

### Consulting, calculation and execution

Teqton provides consulting, calculation and execution of joint-free roller-compacted concrete floors for warehouse, logistics, industrial and production environments.

We are pleased to participate early in the process so that requirements for loads, subbase conditions and system design can be aligned correctly from the start. The goal is to ensure that the flooring solution fits the project's function, operations and layout.

We remain available if technical input or clarification is needed in connection with the project.

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### TEQBASE - THE BASE LAYER AS A WORKING PLATFORM

#### **Placement and use**

The Teqbase load-bearing layer is typically placed before hall assembly begins. A work crew can lay more than 1,500 m<sup>2</sup> per day, and after only a few days Teqbase can be used as a stable installation platform for heavy lifting equipment and transport machinery.

Throughout the entire assembly and construction process, Teqbase functions as a safe and solid base for all trades - from installation cranes to painters. This eliminates the need for temporary access roads and keeps the construction site free from muddy conditions after rainfall.

#### **Advantages for element assembly**

For projects involving precast element assembly, the elements can be anchored directly into the Teqbase load-bearing layer. This removes the need for time-consuming and costly auxiliary foundations, which would otherwise need to be included in both the budget and schedule. This provides significant savings for both the client and the contractor and contributes to a more efficient construction process.

#### **Wearing course and commissioning**

The wear layer is applied immediately before the hall is put into operation. Thanks to its very short curing time, the floor can be fully loaded after only 4-6 days, minimizing downtime and ensuring rapid commissioning of the building.

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## TECHNICAL DATA

### Sub-base

Compacted sand cushion, crushed stone or stabilized gravel tested with a plate load test in accordance with DIN 18134, where  $E_{v2} > 80 \text{ N/mm}^2$  and the  $E_{v2}/E_{v1}$  ratio  $< 2.5$ . Teqbase can also be installed on polystyrene insulation with a strength rating of at least MX250 or higher.

### Flatness

In accordance with German DIN 18202, table 3, line 2.

### Anchorage

Teqbase facilitates anchorage of bearings and element supports. When dealing with heavy loads, pull tests should be carried out. Suitable for installing machines and shelves.

### Load

Depending on sub-base and construction thickness: Surface loads of up to  $200 \text{ kN/m}^2$  Point loads of up to  $100 \text{ kN}$  on  $0.1 \times 0.1 \text{ m}$ . When dealing with special loads and complicated sub-bases, special geotechnical tests on consolidation conditions should be carried out.

### Normal thickness

On average  $18 \text{ cm}$  – can be made thicker if needed.

### Daily output

Around  $1,500 \text{ m}^2$  per day per work team.

### Joints

Normally a jointless surface. Separation joints in Teqbase by all foundations and adjacent building elements as well as thin cold joints. System solutions are created for connections.

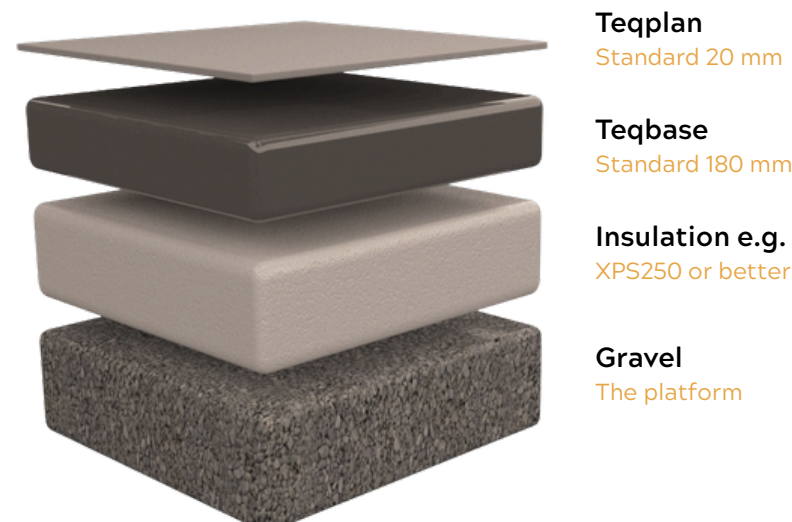
### Working temperature

Frost-free.

### Further information

Regarding data sheets on:

- Connection to other building components
- Inspection
- Reference list



**Teqplan**  
Standard  $20 \text{ mm}$

**Teqbase**  
Standard  $180 \text{ mm}$

**Insulation e.g.**  
XPS250 or better

**Gravel**  
The platform

You are welcome to contact us for further information

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