



CHEMIDUR CE

ANTISTATIC MONOLITHIC FLOORING

Standard UNI 11146 - UNI 8298-10

DESCRIPTION

Monolithic floor with medium strength on an underlying plate.

Thickness of approx. 1.5-3.0mm self-levelling, antistatic resin applied to the concrete plate which is completely dry and has been roughened mechanically.

WHERE IT IS APPLIED

Suitable for loads (I) and operations (L) (See DIN Standard 1100)

Electronic industries, laboratories, operating theatres, clean rooms, explosive environments, areas with magnetic guides etc...

STRENGTHS

It is a long lasting, hard wearing flooring which is easy to maintain.

WEAKNESSES

Any issues may be caused by:

- 1) A lack of a damp proof course or barrier between the subfloor and the concrete slab.
- 2) A failure to plan for the appropriate thickness, type of concrete and reinforcement used.
- 3) Incorrect sizing of the plates with respect to loads and anticipated movement.

NOTE

The flooring is smooth and may be coloured.



SPECIFICATION FOR THE DESIGN

CHEMIDUR CE monolithic industrial anti-static flooring is composed of:

A) PREPARATION

Prepare the application surface by using mechanical equipment and dust extraction

B) SURFACE LAYER

Application of epoxy and quartz primer. Provision of copper strips connected to the earth.

A mix of special conductive aggregates on a homogeneous granulometric curve and synthetic resins, applied with a notched trowel and finished with a spiked roller to remove surface bubbles.

C) LOAD BEARING CONCRETE PLATE

Cured concrete plate

(Formulated, reinforced concrete to achieve the performance expected by the design of the project. Resistance, durability and controlled shrinkage are basic elements of DURSICAL. Thickness and reinforcement requires a design project.

D) SEPARATION BARRIER

PVC isolation layer between the base and the flooring. Separation from the elevated structures.

E) SUPPORTING BASE

Soil stabilised using the Westergaard method

CHEMIDUR CE ANTI-STATIC FLOORING TECHNICAL DATA SHEET

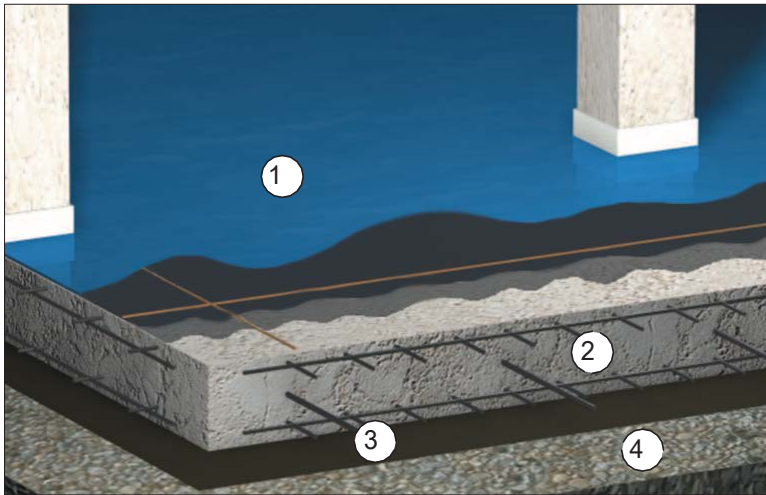
STABILISED SOIL

Excellent compaction of the load bearing soil by rolling in several stages.
(Westergaard method to comply with subfloor requirements for the floor design.)

FLOORING COMPOSITION

- 1) **CHEMIDUR CE Anti-static surface layer with a thickness of approx. 1.5-3.0mm.**
- 2) **DURSICAL reinforced concrete plate**
- 3) **Damp proof barrier**
- 4) **Stabilised load bearing soil**

Load bearing weight of the flooring with respect to the project is variable from 2,000 to 4,000kg/m² with a static load. The flooring must be isolated from elevated structures.



1) CHEMIDUR CE anti-static, anti-wear surface layer.

2) Reinforced concrete plate according to the project.

3) PVC damp proof barrier

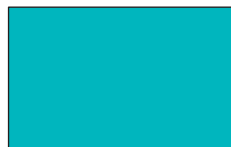
4) Soil stabilised using the Westergaard method.

CHEMIDUR CE	DURSICAL	BARRIER	STABILISED
Compression= > 100 MPa Flexion> 40 MPa Abrasive wheel CS 17 at 1.000 RPM < 80 mg. Surface dispersion $10^8 - 10^{11} \Omega/m^2$	Concrete > RC 30 Reinforced with mesh or fibres Depending on the project Completely dry And roughened mechanically	Polyethylene sheet on top Separation from the structure In elevation	STABILISED SOIL In several steps Rolling and wetting with Resistance between $K > 10/25 \text{ kg/cm}^2$

SURCHARGES

A surcharge is made for base colours.

Bas colours for illustrative purposes only.



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