# DH MAXI

## Self-levelling screed for heavy traffic

For thicknesses between 3-30 mm

## CHARACTERISTICS

- Self-levelling
- It can be used for levelling both absorbent and non-absorbent surfaces
- No contractions
- Short tack free time
- Wear resistance
- Particularly smooth final surface
- Passable after 6 hours, can be covered after 24-48 hours
- It can be used for heated floors and parquet
- For indoor application
- Reinforced with cellulose fibers

## SCOPE OF USE

Ceresit DH Maxi is a self-levelling screed used for levelling interior floor surfaces of residential blocks and public buildings, in order to cover them with carpet, parquet, PVC, linoleum or rubber, up to a maximum thickness of 30 mm. Used for levelling concrete surfaces, lightweight concrete, cement screed, etc. which have a resistance of at least 15 N/mm2. After the appropriate pretreatment, it can be used for levelling anhydrite, ceramic (terrazzo, artificial stone, slates etc.) screed floors. After hardening, a rigid, smooth surface results. In the case of application at thicknesses greater than 9-10 mm, we recommend the Ceresit R 740 or Ceresit R 755 primers, with sprinkling of quartz sand (0,3 - 0,8mm).

## SUBSTRATE PREPARATION

The substrates must comply with the requirements of the national regulations in force (e.g.,: GP 037/0-1998). Before applying the leveling compounds, it must always be ensured that, in the case of floating screeds, the residual moisture of the substrate is < 2 CM % on the cement-based screeds without floor heating (or < 1.8 CM % with floor heating) and < 0,5 CM % for screeds with calcium sulphate without floor heating (or < 0,3 CM % with floor heating).
In the case of adhesive screeds and when the levelling compound is applied directly to concrete surfaces, it is necessary to determine the residual moisture over the cross-section of the screed. If it is not possible to determine the residual moisture, a sufficient drying time of several months must be observed. Composite structures should also be protected with a moisture barrier (e.g., Ceresit R 755 - quartz sand anchor) against moisture build-up in the floor construction.
**In the case of cement-based concrete and screed floors:** The soft coating layer (cement milk) or crumbly cement residues must be removed from the surface of the floor by sanding.




After extraction of the dust, the surface must be treated with penetrating primer Ceresit R 777 or Ceresit R 766 to ensure a better adhesion (at least two layers). The application of the levelling material should be started only after the complete drying of the primer (approx. 1 hour).
**For anhydrite screeds:**
The preliminary treatment is carried out (after sanding and vacuuming) by applying the Ceresit R 777 primer, undiluted. The primer drying time in this case is 24-48 hours!
**In the case of compact, non-absorbent surfaces:** The surface will be primed with Ceresit R 740 with sprinkling of quartz sand. In the case of ceramic floors, they will be pre-cleaned with floor cleaner and then the Ceresit R 766 primer will be applied. The drying time is approx. 6 hours.
The recommended grain size for quartz sand is 0.3-0.8.

## APPLICATION

To prepare the levelling composition, add 25 kg (1 bag) to 5,0-5,5 l of cold water gradually, continuously mixing with the electric mixer until a homogeneous composition is obtained, without agglomerations (3-5 minutes). The composition thus obtained must stay for 3-4 minutes, then it must be mixed well once more. The prepared composition must be used within 20-25 minutes, by applying continuously and evenly on the floor. The screed is poured and spread using a steel rake (trowel with thick and thin teeth) and then deaerated using the deaeration roller. Ceresit DH Maxi is suitable for pump application.

## PLEASE NOTE

The temperature of the support on which the screed is applied must be higher than 15°C, and the air temperature higher than 18°C, in conditions of maximum relative humidity of 75%. Protect the screed against accelerated drying: direct exposure to the sun or drafts. It cannot be used in wet places or outdoors. When preparing the levelling composition (when mixing with water) it becomes basic, therefore we must avoid coming into contact with the skin or eyes. In case of contact, rinse with water. In case of contact with the eyes, a doctor should be consulted. It is mandatory to observe and ensure sufficient drying time. The tack free time and the curing time depends mainly on the temperature conditions: higher temperature of the material and water accelerates the setting; lower temperature slows it down. To avoid the negative effects of a too fast drying, the surface must be protected from sunlight and drafts. The fresh levelling compound can be washed off the tools with water, but the hardened material can only be removed mechanically. On the surface on which the screed has been applied and left uncovered for a longer period of time (e.g., several weeks) there is a risk of occurring cracks. Therefore, it is recommended to cover it as soon as possible (but not less than 24-48h, hours, depending on the thickness of the screed layer).

## STORAGE

9 months from the date printed on the packaging, in the original packaging, tightly closed and in dry places (relative air humidity <50%) and temperature higher than 0°C.

## PACKAGING

25 kg paper bags

CE

1803

Henkel AG & Co. KGaA Deutschland
Henkelstraße 67 · 40191 Düsseldorf

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EN 13813:2002

00215

Cement-based self-levelling screed for indoor use

EN 13813 CT - C30 - F7

| | |
|---|---|
| Reaction to fire: | A1fl |
| Emission of corrosive substances: | CT |
| Water permeability: | NPD |
| Water vapor permeability: | NPD |
| Compression strength: | C30 |
| Bending strength: | F7 |
| Adhesion to the substrate: | B 2.0 |
| Wear resistance: | NPD |
| Noise isolation: | NPD |
| Noise absorption: | NPD |
| Thermal resistance: | NPD |
| Chemical resistance: | NPD |

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## GENERAL INFORMATION

Low chromate content. Contains cement. It has a strong alkaline reaction with moisture, so protect your skin and eyes. After contact with the product, immediately wash the skin with plenty of water. In case of eye contact, proceed similarly and consult a doctor.

## RECOMMENDATIONS FOR WASTE

Only completely emptied packaging can be recycled. Dispose of cured product residue as industrial waste similar to household waste or in a commercial/construction waste collection container. Dispose of unhardened product residues as hazardous waste. Waste code: 170101.

## TECHNICAL DATA

| | |
|---|---|
| Composition: | cement mixed with fillers of mineral origin and special additives |
| Colour: | grey |
| Consistency: | powder |
| Density: | approx. 1.4 kg/dm3 |
| Mixture proportion: | 5.0-5.5 l water to 25 kg powder |
| Time of placing: | approx. 20-25 minutes |
| Application temperature: | 15 - 30°C |
| Passable: | after approx. 4- 6 hours |
| Next layer:<br>a) 24 hours for thickness up to 15 mm or maxim 2% CM<br>b) 48 hours for thickness greater than 15 mm or maxim 2% CM Adhesion on the | |
| Substrate (SR EN 13892-8): | min. 2.0 N/mm2 |
| Compression strength (SR EN 13892-2): | min. 30.0 N/mm2, in 28 days |
| Bending strength (SR EN 13892-2): | min. 7.0 N/mm2 |
| Class (SR EN 13813): | CT - C 30 - F 7 - B 2,0 |
| Consumption: | 1.75 kg powder /m2/mm |

The information contained above is general and is not suitable for any support surface, project or system. The information is based on our experience accumulated to date and the results of continuous and careful tests. Varying conditions and methods of use will influence the application of this product.

Optimum product performance depends on the user's professional judgement and compliance with: trade practice, applicable standards and codes of practice, which are factors beyond our control. Application, use and processing of our products is outside of our control and supervision and it is your sole responsibility. The appearance of this Ceresit technical data sheet makes the previous product information obsolete.



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