

Torggler

Flooring

FLOORREP

Self-levelling rapid cement mortar for repairing industrial floors with thickness of 3 mm to 30 mm.



- Excellent adhesion to the surface
- High mechanical resistance
- For indoor use



APPLICATION AREAS

Floorrep must only be used for indoor applications. It is ideal for the following applications:

- repairing damaged concrete floors in industrial production buildings subject to considerable traffic and mechanical stress such as forklift trucks, etc.
- smoothing of concrete floor slabs and of cement screeds with considerable irregularity.

FEATURES

Floorrep is a grey pre-mixed self-levelling cement mortar based on a mix of special rapid-hardening cements, select inert agents, synthetic resins and special additives. After mixing with water, you have a mix which is fluid and self-levelling, which has a considerable pot life and which is easy to use and apply using a spatula with thickness of 3 mm to 30 mm, with excellent adhesion to the surface. Once it has hardened, it is extremely resistant, in mechanical terms and to knocks and abrasion, with a smooth dust-proof surface. Beds in compliance with EN 13813 CT-C25-F7-A22-AR2 can be obtained.

WARNINGS

- Do not apply the product at temperatures below +5 °C or above +30 °C.
- Do not mix the product with other binders such as cement, hydraulic lime, gypsum, etc.
- Do not add water when the mix has already started to set.
- Do not use the mixed product when it has already started to set. Therefore, always prepare quantities of mix which can be used within the pot life.
- Do not apply the product outdoors or in areas subject to the continuous presence of water or rising damp.
- Do not apply the product as floating bed.

INSTRUCTIONS FOR USE

Preparation

The surface must be clean and smooth, without dust, loose material and dirt in general. Remove any traces of oil and grease thoroughly. Remove any old floor adhesives residues (carpets, PVC, parquet, etc.). When working with damaged concrete, hammer and scrape the surface to remove all loose, crumbling or inconsistent material until a clean, resistant background is revealed. On very porous and absorbent surfaces, apply a coat of Piastrellite Primer in advance and wait until it has dried completely (until the film applied becomes transparent). Treatment with Piastrellite Primer is also required for surfaces which are anhydrite and magnesia-based.

Mixing the product

Mix Floorrep with about 13 – 15 % water (3.25 – 3.75 litres per 25 kg bag), if possible, using a low rpm drill with appropriate mixer attachment. Mix for at least 3 minutes, until the product is even, without lumps, fluid and self-levelling. Leave to rest for minimum 5 minutes, to allow the complete dissolution of the additives, then mix again for at least 1 minute. The mix prepared in this way has a pot life of approx. 45 minutes under normal conditions (at +20 °C). Higher temperatures shorten the pot life; lower temperatures increase the pot life. If there has been no prior treatment using Piastrellite Primer, wet the surface until it is very wet, leave the excess water to evaporate or remove it using a sponge. Make sure you remove all the surface water. If there has been prior treatment using Piastrellite Primer, this wetting procedure is not required.

Application

Pour the mix and apply it using a paddle. This assists final levelling. In the case of continuous applications over large areas, create expansion joints every 5 m along the surface to which the product is applied. You can clean the tools with water before the mix sets. After it has set, you must remove the product from the tools mechanically.

TECHNICAL SPECIFICATIONS

Colour	grey
Apparent density	1,46 kg/litre
Granulometry	0 – 2,5 mm
% mixing water and required per 25kg bag	13 – 15% = 3.25 – 3.75 litres per 25 kg bag
Mix density	2,15 kg/litre
Mix consistency	fluid and self-levelling
Mix pot life (at +20 °C)	about 45 minutes
Setting times (as per EN 196-3 – at +20 °C): setting start	100 minutes
Setting times (as per EN 196-3 – at +20 °C): setting end	160 minutes
Hardening at 20°C	can be walked on after about 3 hours
Application temperature	from +5 °C to +30 °C
Operating temperature	from -20 °C to +90 °C
Resistance to flexion (as per EN 196-1): after 1 day	4,0 N/mm ²
Resistance to flexion (as per EN 196-1): after 3 days	5,0 N/mm ²
Resistance to flexion (as per EN 196-1): after 7 days	6,0 N/mm ²
Resistance to flexion (as per EN 196-1): after 28 days	8,0 N/mm ²
Resistance to compression (as per EN 196-1): after 1 day	16,0 N/mm ²
Resistance to compression (as per EN 196-1): after 3 days	20,0 N/mm ²

Resistance to compression (as per EN 196-1): after 7 days	23,0 N/mm ²
Resistance to compression (as per EN 196-1):after 28 days	26,0 N/mm ²
Resistance to tears (as per DIN 18156): after 7 days	> 0,8 N/mm ²
Resistance to tears (as per DIN 18156): after 28 days	> 1,0 N/mm ²
Modulus of elasticity after 28 days (as per MIT 90)*	12,600 N/mm ²
Resistance to wear: compliance with EN 13892-4 (BCA)	< 200 µm (AR2)
Resistance to wear: compliance with EN 13892-3 (Böhme)	< 22 cm ³ /50 cm ² (A22)
Consumption	20 kg/m ² per cm of thickness
Classification (as per EN 13813)	CT-C25-F7-A22-AR2
Packaging	bag
Pallet	50 bags
Color	Grey
Packaging size	25 kg

CONSUMPTION

The consumption of Floorrep is about 20 kg/m² per cm of thickness.

STORAGE

Store in a dry and protected area. If closed in the original bags, it can be stored for at least 9 months.

The information contained in this document is reported on the basis of our experience and knowledge; therefore, any recommendations and suggestions made are without any guarantee and must be verified before using the product by those who intend to use it, who assume all responsibility that may result from its use since the conditions of use are not under our direct control. In case of doubt, it is always advisable to make preliminary tests and/or ask for the intervention of our technicians. Torggler reserves the right to modify, replace and/or delete the items, as well as to change the product data in this document without prior notice; in this case the indications given here may no longer be valid. Always refer to the latest version of the data sheet, available at www.torggler.com. Version 21.06.2021.