Torggler

Flooring

QUARZ

Pre-mixed anti-wear dry-shake finish for industrial floors, class CT-C70-F7-AR1 according to EN 13813 - material for cement-based screeds for use inside buildings.

IN COMPLIANCE WITH
CT C70 F7 AR1
EN 13813

APPLICATION AREAS

Quarz is suitable for the construction of wear-resistant, shockproof and dry-shake floors of:
- Industrial production and storage buildings
- Workshops
- Garages
- Ramps
- All situations where it is necessary to considerably increase the abrasion resistance of concrete

TYPES OF SUBSTRATE

Cement screeds

FEATURES

Quarz is a mixture of cement, pure quartz aggregates of high hardness and special additives based on synthetic polymers characterized by strong dispersing power. Quarz is used to create industrial floors with excellent

abrasion resistance, high surface density, good penetration resistance, easy cleaning.
Quarz is classified as screed material type CT-C70-F7-AR1.

WARNINGS

- Do not apply Quarz at temperatures below +5 °C or above +35 °C.
- Never mix with other binders such as cement, hydraulic lime, gypsum, etc.

INSTRUCTIONS FOR USE

Preparation for use

Prepare the base with the appropriate bearing capacity:

- the concrete must be dosed at 300 kg of cement 32.5 CEM I and/or CEM II per m^3 of concrete and have a low A/C factor;
- the aggregates must be of a suitable particle size and in accordance with the thickness of the concrete screed;
- the thickness of the screed must be at least 15 cm and in any case depending on the concentrated loads acting on the floor;
- the concrete must be properly tamped, stabled and finished with plastering trowel.

Product preparation

Quarz is ready to use.

Instructions for use

The surface dry-shake finishing with Quarz can be carried out either manually or mechanically and must be carried out on the surface of the screed still fresh and suitably revived. In the case of manual application, the dry-shake finishing operation must be carried out with an overturned trowel or steel spatula in two coats divided into approx. 3 kg per $m^2$for the first and 1 kg per m^2 for the second. In the case of mechanical application, the dry-shake operation must be carried out in a single coat for a consumption of approx. 4 kg per m^2. Finally, perform the smoothing with a finishing machine or by hand. The joints are engraved at intervals of up to 4 metres. The floor must be kept wet for at least 8 days or treated with a suitable anti-evaporating product. Seal with Torggler silicone sealant (in case of possible contact with oils or fuels). Protect the floor from superficial soiling and only after 2 weeks after installation can it come into operation.

TECHNICAL SPECIFICATIONS

Consistency	Powder
Bulk density	1.400 kg/litre
Particle size	2.5 mm
Chloride ion content (minimum requirement ⩽ 0.05% – according to EN 1015-17)	⩽0.05%
Mixture density	2.250 kg/litre
Permissible application temperature	from +5 °C to +35 °C
Final performances (mixing water 10.5%)	
Compressive strength (EN 13892-2)	after 1 day ⩾35 N/mm^2
Compressive strength (EN 13892-2)	after 28 days ⩾70 N/mm^2
Flexural strength (EN 13892-2)	after 1 day ⩾5 N/mm^2
Flexural strength (EN 13892-2)	after 28 days ⩾8 N/mm^2
Adhesion on concrete (substrate type MC 0.40 – A/C ratio = 0.40)(EN 1542)	⩾2 N/mm^2 after 28 days
Capillary absorption coefficient (EN 1062-3)	<0.1 $kg/m^2*h^{0.5}$
BCS wear resistance	⩽100 µm Class AR1
Reaction to fire (EN 13501)	$A1_{fl}$

Color	Grey
Packaging	bag
Packaging size	25 kg
Pallet	50 bags

CONSUMPTION

The consumption of Quarz is approx. 4 kg per m^2.

STORAGE

When stored in its original packaging, in a dry and sheltered place Quarz is stable for at least 12 months.
PROTECT FROM HUMIDITY.

Classification legend according to EN 13813	
Screeds in relation to the binding agent used	
CT	Cement screeds
CA	Calcium sulphate screeds
MA	Magnesite screeds
AS	Mastic asphalt screeds
SR	Synthetic resin-based screeds
Designation of properties	
C	For compressive strength
F	For flexural strength
A	For "Böhme" abrasion resistance
RWA	For wear resistance due to rotating loads
AR	For "BCA" wear resistance
SH	For surface hardness
IC	For resistance to residual impression on cubes
IP	For resistance to residual impression on slabs
RWFC	For wear resistance due to rotating loads with covering for floor
E	For the modulus of elasticity
B	For grip strength
IR	For impact resistance