



TAL M KVARC

Mineral dry shake for concrete floor finishing

- ▶ Class of abrasion resistance A9* (according to EN 13813)
- ▶ For light and medium loads
- ▶ Application only on fresh concrete
- ▶ Frost-resistant
- ▶ Improved resistance to oil, grease and detergents
- ▶ Dust-free and anti-slip
- ▶ Antistatic
- ▶ Densified concrete surface



PRODUCT DESCRIPTION Dry shake - mixture of hard minerals for surface finishing of industrial concrete floors and floor base.

FIELD OF USE Mineral dry shake on the surface of concrete industrial paving or floor base improves mechanical properties and wear resistance. For making concrete pavings with increased wear resistance and densified (unporous) surface.

- PRODUCT**
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- PROPERTIES**
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 - Antistatic
 - Densified concrete surface

PRODUCT DATA			
BASIC INFORMATION	Appearance	Grey powder (available also in next colours: red, okra, green, anthracite grey, dark grey, brown, blue)	
	Packing	30 kg in bag (plastificated) / 1260 kg (42 x 30 kg) on palette	
	Storage and expiration date	12 months from date of production if stored properly in undamaged original sealed packaging in dry and cool conditions. Date of production is printed on packaging.	
TECHNICAL DATA	Chemical base	Cement based dry shake	
	Density	- bulk density: 1,49 kg/l	according to EN 12192-1:2002
		- hardened mortar density: 2,25 kg/l	according to EN 13892-2:2003
	Grading	D _{max} : 1,4 mm	according to EN 12192-1:2002
	pH	11,6 (20°C)	
	Flexural strength after 28 days	> 7 MPa (F7)*	according to EN 13892-2:2003
	Compressive strength after 28 days	> 40 MPa (C40)*	according to EN 13892-2:2003
Abrasion quantity in cm³/50 cm² (Böhme)	8,5	according to EN 13892-3:2004	

INSTRUCTIONS FOR USE

4-6 kg of TAL M-KVARC are consumed per 1 square metre, according to the required paving resistance, i.e., the envisaged paving loads at the site in question. By increasing the quantity of TAL M-KVARC applied per square metre of paving, the paving resistance and lifetime are increased.

CONSUMPTION 3 to 5 kg/m² (grey colour of dry shake)
min. 5,5 kg/m² (red, okra, green, anthracite grey, dark grey, brown, blue colour of dry shake)

BASE TAL M-KVARC requires a basis layer of fresh concrete of minimum 12 cm thickness (at least C25/30).

BASE PREPARATION Before concreting the supporting plate is carried out all necessary preparatory work, which depends on the individual case (subject to concrete, insulation, etc.). The prepared base mounted armature, as provided in the project.

During the wall (pillars) and a concrete panel installation of separating strip thickness 1cm is necessary, which will completely separate concrete panel from the wall and create a so-called spatial cleft.

On such prepared concrete base the instillation of the basis layer of fresh concrete of thickness at least 12 cm and concrete mark at least C 25/30, is required.

Water/cement factor of concrete should be minimized.

Concrete has to comply with the requirements for reinforced concrete load-bearing structures and it has to be in accordance with established engineering practice.

INSTALLATION After levelling wait for the appropriate moment and then start with the strewing and burnishing. Time between installation of concrete and beginning of strewing is in normal conditions 2 to 3 hours (depending on the concrete and weather conditions).

In first step the 3 to 4 kg of TAL M KVARC per m² is strewn on the surface of fresh concrete and machine- burnished. Strewing is carried out in two or more cycles, so long that the strew completely integrates into the concrete surface and binds all moisture from the surface, or, so as to apply the quantity specified per square metre. On difficult areas (in the corners, close to the wall) we strewn manually. During strewing, concrete is to be burnished with a concrete machine burnisher, which shall have adjustable slant blades. The blade slant is to be progressively reduced in the course of burnishing, to achieve perfectly smooth surface. The paving is to be tended in the same way as other concrete pavings.

DILATATIONS JOINTS Dilatation joint are cut in 1 to 2 day old concrete to a depth of 1 / 3 the thickness of concrete slabs. Allocation of joint is dependent on the surface of floor space and is defined by the project. The goal is to make the square fields that should not be bigger than 25 m². Avoid the fields in the form of a letter L. Such a field divided into a rectangle, although smaller areas. The joints are necessary to be cut also in places where the greater tension in floor plate is expected. After cutting the joint has to be vacuumed and fill with permanently elastic sealing.

TOOL Concrete is to be burnished with a concrete machine burnisher, which shall have adjustable slant blades.

CLEANING OF TOOL Clean the tools immediately after use. Dry compound can be removed only mechanically

LIMITATIONS

BASE TEMPERATURE +5°C min./ +30°C max.

AIR TEMPERATURE +5°C min./ +30°C max.

MATERIAL TEMPERATURE +5°C min./ +30°C max.

- WARNINGS**
- Cure the fresh applied floor as all other concrete screeds. Cover with polyethylene foil fastened with self-adhesive tape, sprinkle with water or with KEMACURE EKO liquid agent for fresh concrete maintenance. In any case it should be protected against rapid drying after the application in order to provide complete hydration of cement and prevent formation of cracks.
 - Times specified in the technical sheet were measured at the temperature of 23°C and relative air humidity of 50%. With higher temperatures prescribed time can be shortened while prolonged at lower temperatures.
 - Protect freshly installed material from freezing, rain and other weather conditions. The material should not be used at (surface, air, material) temperatures lower than 5°C.
 - *The class is declared on the basis of the results obtained from laboratory testing of samples made exclusively from the product TAL M KVARC and does not apply to the industrial floor of the random composition on which the product will be installed in the form of dry-shake.

Recommendation: Remains of the unhardened/unset material must be disposed in accordance to the local legislation.

Data source: All technical data in this technical sheet was obtained by laboratory research. Actual data may differ due to different working conditions.

Local restrictions: Due to specific local regulations the installed product can differ from country to country. For exact instructions a country specific technical sheet should be obtained.

PROOFS

NORMS/ STANDARDS TAL M KVARC is tested in accordance with EN 13318:2008 and EN 13813:2003 standard.

SAFETY DATA

Irritating. Contains cement. Irritating to eyes, skin and respiratory tract. Contact with skin may cause hypersensitivity. In case of eye contact wash thoroughly with water at once and consult a doctor. In case of skin contact flood with a lot of water. Keep away from the reach of children. More data on storage, handling and use of mixture can be found in the safety sheet which contains safety, toxicological and ecological data. Warnings on the original packaging should also be considered.



LEGAL BASE

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