



TAL M KORUND 10

Hard aggregate screed/topping

- ▶ Class of abrasion resistance A6* (according to EN 13813)
- ▶ Also suitable as dry-shake for improving the mechanical properties and wears resistance of screed
- ▶ For higher and heavy loads
- ▶ Improved resistance to oil, grease and detergents
- ▶ Resistant to metal wheels and blows
- ▶ Frost-resistant
- ▶ Antistatic
- ▶ Application only on fresh concrete
- ▶ Dust-free and anti-slip
- ▶ Waterproofness



| PRODUCT DESCRIPTION | Ready-mix cement-based composition of hard quartz and corundum minerals, reinforcement micro fibres and additives. |
|---------------------|---|
| FIELD OF USE | For micro-reinforced cement coatings for the surface beneficiation of fresh industrial concrete floors exposed to very high loads, for reaching the controlled thickness of layer. For concrete floors exposed to combined loads (rolling, abrasion, blows). The mortar is mixed in a compulsory concrete mixer until it is fully homogenous. 10 mm layer thickness control with steel bars f 10 mm. |
| PRODUCT PROPERTIES | <ul style="list-style-type: none"> • Class of abrasion resistance A6* (according to EN 13813) • Also suitable as dry-shake for improving the mechanical properties and wears resistance of screed • For higher and heavy loads • Improved resistance to oil, grease and detergents • Resistant to metal wheels and blows • Frost-resistant • Antistatic • Application only on fresh concrete • Dust-free and anti-slip • Waterproofness |

| PRODUCT DATA | | |
|-------------------|--|---|
| BASIC INFORMATION | Appearance | Grey powder (available also in next colours: red, okra, green, anthracite grey, brown, blue, dark-grey) |
| | 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 aggregate screed |
| | Density | - bulk density: 1,62 kg/l |
| | | - hardened mortar density: 2,4 kg/l |
| | Grading | D _{max} : 3,0 mm |
| | pH | 11,4 at 20°C |
| | Flexural strength after 28 days | > 7 MPa (F7)* |
| | Compressive strength after 28 days | > 60 MPa (C60)* |
| | Abrasion quantity in cm³/50 cm² (Böhme) | 5,1 cm ³ /50 cm ² |

INSTRUCTIONS FOR USE

| | |
|-------------------------|---|
| CONSUMPTION | ca. 20 kg/m ² for approximately 10-mm layer (topping) |
| BASE | TAL M-KORUND 10 requires a basis layer of fresh concrete of minimum 12 cm thickness (at least C25/30). |
| BASE PREPARATION | <p>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.</p> <p>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.</p> <p>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.</p> <p>Water/cement factor of concrete should be minimized.</p> <p>TAL M KORUND 10 is not recommended for air-entrained concrete. Concrete has to comply with the requirements for reinforced concrete load-bearing structures and it has to be in accordance with established engineering practice.</p> |
| MIX RATIO | For screed: 3,3-3,6 l of water per 30 kg of dry mixture (topping) |

MIX TIME Mix hard aggregate screed/topping in mixer, until mixture is completely homogenous and with uniform colour.

INSTALLATION Installation as topping:

Prior application of TAL M KORUND 10 concrete has to levelled on prescribed thichnes. We recommended usage of laser levelling equipment, which assure maximum precision. After waiting time (at normal clima is 2-3 hours) pour the mortar on concrete and spread it in thickness of approx. 10 mm. The thickness is controlled with steel bars with diametre of 10 mm.

Next step is machine-burnising. The blade slant is to be progressively reduced in the course of burnishing, to achieve perfectly smooth surface. On difficult areas (in the corners, close to the wall) we strewn manually.

Instalattion as dry-shake:

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 KORUND 10 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 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 KORUND 10 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 KORUND 10 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

Information and recommendations related to use of KEMA products are presented in good faith and believed to be correct. The later is based on our knowledge and experience with the products. Information is supplied upon the condition that products are stored and used according to the recommendations and the persons receiving the same will make their own determination as to its suitability for their purposes prior to use. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to Information or the product to which information refers. In no event will KEMA be responsible for damages of any nature whatsoever resulting from the use of or reliance upon Information or the product to which Information refers. Nothing contained herein is to be construed as a recommendation to the use any product, process, equipment or formulation in conflict with any patent, and KEMA makes no representation or warranty, expressed or implied that the use thereof will not infringe any patent. All orders fall under current sales and supply conditions. The user should always check the latest technical sheet available upon demand.