

ARMOSCREED SD

Quick-drying, Normal Setting, Ready-to-use mortar

Description:

ARMOSCREED SD is a pre-blended ready-to-use mortar with normal setting, controlled shrinkage and high thermal conductivity. It is based on a special hydraulic binder and graded aggregates. Since ARMOSCREED SD is a pre-blend material, it is ready for on-site mixing preventing errors in the material preparation.

ARMOSCREED SD has a workable length of time the same with the conventional cement-based mortars only it cures faster. ARMOSCREED SD is an ideal solution for job sites that needs good quality graded aggregates but are hard to find.

Uses:

ARMOSCREED SD is used in variety of applications:

- Unbonded and bonded screeds on new and existing slabs in interior and exterior applications
- Use as a heated screeds without the need for plasticizers
- Can be used as screed that is set for foot traffic in 12 hours and completely dry in 4 days
- Screeds prior to installing wood parquet and resilient flooring such as rubber, PVC, linoleum, ceramic tile, natural stone, carpet, etc
- Screed that is ready to receive ceramic tiles after 24 hours
- Screeds that is ready to receive natural stone flooring after 2 days.
- Can be used as repair screed in areas wherein short time of laying floorings is required.

Advantages:

- User friendly – only mix water on site
- Trowelable, accepts subsequent finishes
- Compatible with all cementitious substrate
- It has high thermal conductivity which makes it particularly suitable for laying heated screeds.
- High bonding to substrate

Instructions for Use:

Surface Preparation:

All surfaces should be sound, clean, dry and free from loose material, efflorescence, laitance, curing compounds, dirt, oil and grease and any other contamination which might impair adhesion. Concrete substrate should have been placed for at least 28 days. Contamination or excessive concrete laitance can be removed by utilizing grinding, captive blasting and sand blasting. If the substrate is restricted to access, utilise preparation by handy mechanical tools. Any necessary repairs should be carried out using one of MATEX range of concrete repair products. Consult with Technical Department for recommendation.

Mixing:

ARMOSCREED SD must be mixed mechanically with low-speed drill mixer (200-300 rpm) fitted with suitable paddle. For large production, use vessel mixer. For the preparation of mixture, pour into a container, 1.72 liters of clean water, then add the 25kg bag of powder screed to the water slow mix for 3 minutes until a uniform, lump free consistency mixture is achieved. No further water should be added to the mix.

Application:

BONDED SCREED (10 to 40 mm thick):

Thin screeds must be laid directly in contact with the substrate which may be cementitious or made up of an old ceramic or stone floor. For other substrates, contact MATEX Technical Department.

If fully bonded screed is required, ARMOPRIME AC or SBR slurry should be applied to the concrete substrate as a bonding and priming layer. ARMOPRIME AC can be applied with a rate of 4 to 6 m²/lt

After substrate is thoroughly prepared, apply the mixture of ARMOSCREED SD while ARMOPRIME AC primer is tacky or as an alternative, pour the mixed slurry (1 volume Megabond SBR: 1 volume clean water: 1 volume fresh cement) into the concrete

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surface and immediately apply ARMOSCREED SD mix while bonding slurry is still fresh in order to ensure good adhesion with the substrate. Apply the mixture of ARMOSCREED SD to the floor directly. Apply a continuous even 2-3 mm layer using a large flat brush, a scrubbing brush or trowel. The floor has to be prepared by guides and the amount of mix should comply with the area of application to avoid multiple casting times.

UNBONDED SCREED (35 to 60 mm thick):

For unbonded screed, primer will not be required. Concrete substrates should be soaked with clean water prior to screed application. Free water on the surface should be allowed to disperse before laying. ARMOSCREED SD mix must be laid on an isolating layer made of polythene sheet or similar to allow movement between the screed and the substrate. In case of rising dampness, place a suitable separating or dampproof membrane over the substrate before applying the screed mortar. The floor has to be prepared by guides and the amount of mix should comply with the area of application to avoid multiple casting times.

If work is interrupted, place a steel rods 20 to 30 cm long and 3 to 6 mm in dia, with a space 20 to 30 cm apart into the screed (cut perpendicular to the substrate).

Spread the mixture evenly to the desired thickness, compact and level it carefully as ARMOSCREED SD is not a self-levelling product. Allow material to initially set before final touches with an aluminum float or a helicopter floating machine. After casting is completed, protect the floor from direct sunlight, high winds or rain.

Standards:

- EN 13813

TECHNICAL PROPERTIES	
Color	Cement grey
Bulk Density	1.50 ± 0.05 kg/lit
Mixed Density	2.10 ± 0.05 kg/lit
Workable time	60 min
Application temp.	5°C to 35°C
Service Temp.	30°C to 90°C
Set to light foot traffic	12 hours
Compressive Strength 1 day	>8 N/mm ²

7 days 28 days	>20 N/mm ² >30 N/mm ²
Flexural Strength 1 day 7 days 28 days	>3 N/mm ² >5 N/mm ² >6 N/mm ²
Thermal Conductivity	λ = 2.008 w/mK
Resistance to moisture, ageing, solvent and oil	excellent

*Values indicated may vary depending on the environment and conditions of the material. Figures given are tested according to standard laboratory conditions.

Packaging:

ARMOSCREED SD is available in 25kg high quality recyclable bags

Coverage:

ARMOSCREED SD coverage rate is approx. 18 – 20 kg per square meter at 1 cm thickness (depending on compaction).

*Coverage rate is an approximate value, and subject to actual site conditions.

Storage:

Store in original packing in dry conditions away from direct sunlight and high humidity levels.

Shelf Life:

ARMOSCREED SD can be utilized within 12 months of production date if stored in proper conditions in unopened original packing.

Cleaning:

Clean tools and equipment with water before the material hardens. Hardened materials can be removed mechanically.

Remarks:

- Do not use ARMOSCREED SD on substrates subject to rising dampness.
- During summer season or temperature higher than 40°C, working area should be covered to prevent the direct sun effects. Keep equipment cool and use cold water for mixing the product.

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- Protect the freshly applied ARMOSCREED SD from direct sunlight and/or strong wind
- Do not mix ARMOSCREED SD with other binders
- Do not add water on the mix once it has begun to set
- When there are waterproofing systems made from prefabricated flexible membrane present, the isolating layer placed between the floor slab and the screed must be made from material permeable to water vapor.
- Do not wet the top of applied screed
- For large areas and/or external application, consult with structural engineer for approved expansion joint applications
- Do not mix excessive quantity of water as it will extend the time of drying and will, when dries, create uneven surface with cracks
- Where it is necessary to lay Electrical conduits or piping in the screed, the mortar on top of the conduct or pipe should not be less than 25mm thick, and should be reinforced with proper galvanized steel mesh.
- Around the parameter of the area and around columns it is recommended to make an expansion joint with minimum 10mm wide using a flexible material.
- Waiting time before the application of levelling compounds can be from 1 to 4 days and is dependent on the type of flooring to be laid.

Health and Safety

Avoid contact with eyes and skin. Wear suitable protective clothing such as coveralls, goggles, dust mask and gloves. Use barrier cream. Ensure that there is adequate ventilation. Do not breathe vapour or spray mist.

FIRST AID:

- Eyes: In the event of accidental splashes, flush with warm water and seek medical advice.
- Skin: Wash skin thoroughly with soap and water
- Inhalation: Remove to fresh air, keep patient rested
- Ingestion: Do not induce vomiting. Seek immediate medical attention.

For further safety information, please refer to ARMOSCREED SD Material Safety Data Sheet.

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