

Technical Data Sheet

DECOFLOOR PL

Polymer modified, Heavy Duty, Cementitious, Polishable Floor Screed

Description:

DECOFLOOR PL is a cement based, single component polymer modified pre bagged floor screed. It consists of hydraulic cement, graded aggregates, silica, fiber and special chemical additives to provide high compressive strength screed at controlled thicknesses. DECOFLOOR PL is formulated to be applied in thickness from 10 mm to 40 mm. Its main function is to level uneven floor and to provide flooring that can be grinded and polished to produce a colored decorative flooring.

Uses:

DECOFLOOR PL is used as a colored decorative topping for interior floors, which can be polished and sealed to give a resilient good-looking flooring. It can be used in residential, commercial and industrial building such as warehouse, schools, airports, retail stores, etc.

Advantages:

- High strength for pedestrian traffic and medium loads.
- Applicable in small thicknesses from 10 mm to 40 mm.
- High bonding to substrate.
- Single component, ease of application.
- Trowelable, accepts subsequent finishes; coatings, membrane, tiling etc.
- Compatible with all cementitious substrate.
- Seamless and hygienic floor
- Ideal for renovation work
- Unlimited choice of matrix color and aggregates

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. 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, utilize 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.

Surrounding areas should be covered and protected from material spills and equipment contact.

Divider Strips:

Dividers should be placed over control and construction joints in the substrate instead of saw cutting the topping in order to extend these joints into the topping. In this case, dividers must be placed precisely over concrete control joints, expansion joints, and at termination joints. For extension joints or wide joints, place two divider strips back to back and later fill with an appropriate joint sealant if necessary.

Dividers must also be used to separate different colors or as design accents, which act as decorative elements and do not function as crack preventers. Dividers also serve as good spreading guides. L-angled or standard divider strips of aluminum, zinc, brass, or copper may be used.

Priming:

Apply a coat of ARMOPRIME AC primer to the substrate in order to unify the surface absorption and provide bonding to the overlay. DECOFLOOR PL is then applied while the primer is still tacky.

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Another option is to apply a first coat of ARMOPRIME GRIP-bonding promoter primer and let it dry in order to seal the substrate.

Mixing:

DECOFLOOR PL 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 6.0 to 6.50 liters of water, then add the 50kg bag of powder screed to the water under slow mixing and mix for 3 minutes until a uniform, lump free consistency mix is achieved. No further water should be added to the mix. Do not add water to the mix once its start to set.

Application:

While primer is still wet, apply the mixture of DECOFLOOR PL to the floor directly. 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.

Spread the mixture evenly to the desired thickness, compact and level carefully as DECOFLOOR PL is not a self-leveling product.

Grinding & Polishing:

Grinding must not take place before the topping has been allowed to cure for an adequate time. Even though the topping sets in as little as 24 hours, grinding after two weeks will produce the best polishing results. For best results, DECOFLOOR PL should be grinded and polished with multi-head professional floor grinding machines and diamond tools. Start grinding with the coarsest pad appropriate to the finish desired. Always grind progressively through all the pads to the fines. Jumping from a very coarse pad to a much finer pad will make the smoothing process very difficult.

Grout the surface after grinding. Sieve the corresponding DECOFLOOR PL color through a fine screen to remove fibers and other course materials, then mix with water and apply to the surface with a trowel or a scrapper ensuring any excess grout is removed. In most cases, initial grinding with metal bond diamond tools should be performed dry while resin polishing should be performed wet. Consult the diamond tool manufacturer for their recommendation and test on a small area first.

Sealing:

Once the in-place DECOFLOOR PL has been allowed to dry, the surface must be sealed for stain protection. When polishing to 40 girt or less, seal with a topical sealer such as SEALEX PU-water based polyurethane sealer, SEALEX EP-water based clear epoxy sealer, or SEALEX AS-solvent borne acrylic sealer. If the surface was polished to 1,500 girt or higher for a natural gloss finish, it must be sealed with a penetrating type sealer such as SEALEX DP. After the penetrating sealer has cured, burnish the surface with a high speed burnished tool or re-polish at 1,500 or 3,000 grit to restore the surface gloss if necessary. Sealed surfaces should be inspected periodically for traffic worn areas and re-seal as necessary.

TECHNICAL PROPERTIES	
Color	Cement Grey
Mix Density	2.0 ± 0.03 kg/lit
Open to foot traffic	24 hours
Working time at 25°C	50 minutes
Compressive Strength	30 N / mm ²
Flexural Strength	6 N / mm ²
Tensile Strength	8.5 N / mm ²
Shrinkage	0.01%

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

Coverage:

DECOFLOOR PL achieves coverage of 2.8 square meters @ 10 mm thickness per bag of 50 Kg.

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

Packaging:

DECOFLOOR PL is available in 50 Kg clean, recyclable paper bags.

Storage:

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

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Shelf Life:

DECOFLOOR PL can be utilized within 12 months of production date if stored in proper conditions in an unopened original packing.

Cleaning:

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

Remarks:

- 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.
- Do not use where negative hydrostatic pressure is evident (i.e. rising damp).
- Do not mix excessive quantity of water as it will extend the time of drying and will, when dries, create uneven surface with cracks,
- Do not add water to DECOFLOOR PL material once the mix starts to set.
- Do not wet the top of applied screed for the purpose of smoothing it with the trowel.
- Where it is necessary to lay Electrical conduits or piping in the screed, the mortar on top of the conduit or pipe should not be less than 25mm thick, and should be reinforced with proper galvanized steel mesh.
- Around the perimeter of the area and around columns, it is recommended to make an expansion joint with minimum 10mm wide using a flexible material.
- Do not apply in areas subject to constant water exposure or intermittent substrate moisture.
- All joints in the existing substrate must be extended through the full depth of DECOFLOOR PL topping by installing a divider strip over the joint or saw cutting the topping.
- The surface must be sealed after polishing.
- It is recommended that divider strips be installed such that their top is at the pre-grinding level, so they provide a level guide for casting the topping.

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 vapor 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 DECOFLOOR PL Material Safety Data Sheet.

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