



MATERIA

Indoor / outdoor special cement flooring system

Description

Materia is a product which is mixed with water only and applied over surfaces such as concrete slab, mortar or self levelling screed, ceramic tiles, marble, stone etc...

This product is a ready-to-use material that contains special cements, well graded sands, carefully selected polymers and fibres to reduce shrinkage and improve physical and application properties.

Materia is suitable for indoor and outdoor application and is unaffected by freeze/thaw conditions and salt treatments. It can easily be trowel applied in thickness from 0.5 mm up to 3 mm.

Field of application

Materia is used in public and industrial buildings.

Its application allows to level and smooth new or former concrete and ceramic screeds to make them suitable for pedestrian traffic and in areas where rubber-wheeled vehicles are in use.

Materia minimises shrinkage and crack tendency. It has an excellent smoothing properties and low modulus of elasticity. It is fast setting: can be over-coated in only 4 hours.

This product is suitable for residential, industrial, commercial floors, as well as for horizontal and vertical concrete coating and resurfacing. It can also be applied on surfaces to make them slip-resistant.

Application guidelines

a) Substrate preparation

Concrete must be fully cured, clean and sound to ensure good adhesion. All loose traces of concrete or mortar, dust, grease, oil, formwork release agents, must be removed. Damaged or contaminated concrete should be removed to obtain a keyed surface. To make aggregate clearly visible on the surface, prepare it by grinding or shot-blasting it.

b) Mixing

It is strongly recommended that only full sacks are mixed. Damaged or opened sacks should not be used.

Mix the product with a suitable paddle attached to a powerful, slow speed electric drill until a lump-free, plastic consistency is achieved.

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c) **Materia application**

For optimum curing of the product the temperatures during application are between +5°C and +30°C and must be maintained for at least 8 hours thereafter. The surface must be mat-damp, but without standing water. Apply the material with a trowel, spreading it so that the pattern shows the trowel stroke.

Storage

Store in cool and dry warehouse conditions. Shelf life is 12 months in unopened original sacks.

Handling and safety

When using this product, ordinary preventive measures for the handling of chemical materials should be observed. It is recommended to wash the hands after handling the product. Avoid contact with eyes and prolonged contact with skin.

MATERIA TECHNICAL DATA

PRODUCT DESCRIPTION			
Colour	All colours available		
Appearance	powder		
Pail coverage	30 m ²		
Working time	30 - 45 min.		
Expiry date	N/A store in dry warehouse conditions		
Packaging	25 kg bags - 56 sacks per pallet		
APPLICATION DATA (at + 5 - 30° C)			
Pot life at 20°C	30 min.		
FINAL PERFORMANCE			
Concrete bonding after freeze/thaw	1,41 Mpa	ASTM C297	
Tensile strength	after 7 days	P4 Mpa·s	ASTM C882
Compressive strength	after 28 days	> 30 N/mm ²	
Full cure	72 hours		
Fire resistance	"A"	UBC 15-2	

Coverage rates are theoretical and depend on the roughness of the support, for which reason it should be adjusted in each particular job by means of "in situ" tests.

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WARNING:

Indications given above come from the company's current knowledge and experience. They must be considered, under all circumstances, merely as an indication and subject to confirmation only after long-term, practical applications. Therefore, anybody who undertakes to use the product, must ensure beforehand that it is suitable for the intended application and, in all cases, the user is to be held responsible for any consequences deriving from its use.

Colledani S.r.l. reserves the right to change technical characteristics, descriptions and specifications anytime.

PRODUCT FOR PROFESSIONAL USE.

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