



DECORATIVE MICROCEMENT COATING FOR WALLS AND FLOORS.

PRODUCT DESCRIPTION

Microtech is a premixed, polymer modified, fiber-reinforced, decorative microcement coating, without corrosive ingredients, suitable for indoor and outdoor applications to walls, offering:

- Abrasion resistance
- Excellent adhesion to the substrate
- Water-repellency
- A special aesthetic result

Certified according to EN 1504-3 and classified as a PCC R2 mortar for concrete repairs. CE marked.

FIELD OF APPLICATION

Microtech is used both internally and externally, in numerous applications including stairs, floors, walls, as well as wherever a special aesthetic result is desired (e.g. Cycladic architecture). Also used in houses, stores, hotels etc., and special constructions such as built-in beds, built-in sanitary ware (washbasins, showers etc.).

SUITABLE SUBSTRATES

- Concrete
- Cement Mortar .

LIMITATIONS

- Do not apply on smooth substrates: roughen surfaces beforehand.
- Do not apply on dry substrates.
- Do not add cement or admixtures.
- Do not add water to the mix to make it more workable once it starts to set.
- Do not leave bags exposed to the sun before use.
- Do not use if the temperature is lower than +5°C.
- Do not use if the bag is damaged or if it has been opened previously.
- Do not use for fixing elements accurately in place.

APPLICATION PROCEDURE

A) Preparation of the substrate

- Remove all deteriorated and loose concrete to form a solid, rough and strong substrate. Any areas previously repaired and which are not perfectly bonded must also be removed.
- Remove all dust, rust, cement laitance, grease, oil and paint from the concrete



and reinforcement rods by sandblasting or hydro-sandblasting.

- Saturate the substrate with water.
- Before carrying out repairs, wait until excess water has evaporated.

B) Preparing the product

Pour approximately 7.5 liters of clean water into a container and slowly add a 25 kg bag of Microtech while mixing. Carefully mix the blend for several minutes then remove any powder which has stuck to the sides and bottom of the container. Add more water to obtain the consistency required without exceeding the recommended amount, approximately 6-6.5 liters. Mix again for several minutes to form a well-blended, plastic consistency, lump-free mixture. Microtech remains workable for around 60 minutes at +10°C to +25°C.

C) Applying the product

Apply a layer of mortar from 3 to 40 mm thick with a trowel or putty knife; no formwork is required. As soon as the mortar starts to set, tamp the surface with a sponge float. The waiting time required before carrying out this operation depends on surrounding weather conditions. To paint and protect the surface, apply a coat of an elastomeric product or an acrylic product.

COVERAGE / CONSUMPTION

The consumption is approximately 1.5kg/m² at 1 mm thickness.

PACKAGING

Microtech is supplied in:
– 25 kg paper bags.

SHELF LIFE-STORAGE

Original sealed bags of this product are guaranteed to be of first quality for 12 months if stored off of the ground in a dry area. High humidity will reduce the shelf life of the bagged product.

SAFETY INSTRUCTION

Microtech is irritant; it contains cement that when in contact with sweat or other body fluid causes irritant alkaline reaction and allergic reactions to those predisposed. It can cause damage to eyes. In case of contact with eyes or skin wash immediately with plenty of water and seek medical attention. It is recommended to use protective gloves and goggles. For further and complete information about the safe use of our product please refer to the latest version of our Material Safety Data Sheet. **PRODUCT FOR PROFESSIONAL USE.**

TECHNICAL DATA

Product identity	
Class according to EN 1504-3	R2
Type	PCC
Consistency	powder
Color	grey
Maximum diameter of aggregate (EN 1015-1) (mm)	0.4
Bulk density (kg/m ³)	1,200
Dry solids content (%)	100
Ion chloride content (%)	≤ 0.05
Application data (at +23°C and 50% R.H.)	
Color of mix	grey
Mixing ratio	26-28 %
Consistency of mix	thixotropic-trowellable
Density of the mix (kg/m ³)	1,800
pH of mix	12
Application temperature range	from +5°C to +35°C
Pot life of mix	approx. 15 minutes
Waiting time before finishing with float	approx. 30 minutes
Setting time	approx. 30 minutes
Final performances	
Compressive strength (MPa)	40
Flexural strength (MPa)	9
Compressive modulus of elasticity (GPa)	15
Bond strength on concrete (substrate type MC 0.40) according to EN 1766 (MPa)	≥ 1.5
Thermal compatibility measured as bond strength according to EN 1542 (MPa)	≥ 1.5
Capillary absorption (kg/m ² .h):	≤ 0.4
Impermeability expressed as coefficient of permeability to free water (kg/m ² .h):	W < 0.1 Class III
Permeability to water vapour – equivalent air thickness S - (m)	S < 5 Class I
Reaction to fire	A1

WARNING

Danger. Contains Portland Cement: Chromium VI < 2 ppm within the validity period of the product. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H335 May cause respiratory irritation. P261 Avoid breathing dust. P280 Wear protective gloves/protective clothing/eye protection/face protection. P302 + P352 IF IN CONTACT WITH YOUR SKIN: Wash with plenty of water/... P305 + P351 + P338 IF IN CONTACT WITH YOUR EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor/...



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