

DECOR MICROCEMENT COATING 2-components

CT-C20-F5

ACCORDING TO
EN 13813

DESCRIPTION

DECOR microcement coating is a 2-component, high strength, polymer modified mortar, enhanced with organic additives and aggregates that when it mixes with the organic emulsion (component B) and **THRAKON DECOR ART** liquid pigments, it can be used in existing and new floors and walls providing a multitude of

different shades. It is suitable for indoor and outdoor surfaces. It creates the traditional Cycladic style with water formations. It is applied in 2-10mm thickness in one layer on a solid and properly primed substrate. Combined with 160gr/m² **CLIMAPLUS** fibreglass mesh.

APPLICATION FILEDS

Suitable for indoor and outdoor applications, on horizontal or vertical surfaces of concrete, plaster, gypsum boards, cement boards and other substrates after appropriate preparation. It is ideal for special structures

such as benches, beds, washbasins, showers, window boxes, stairs, under floorheating, fireplace (outside), etc. In preserved buildings, hotels, houses restaurants, coffee places and nightclubs.

ADVANTAGES-CHARACTERISTICS

- Suitable for indoor and outdoor applications, on horizontal and vertical surfaces.
- It has excellent particle size distribution.
- Wide range of shades.
- Strong adhesion to the substrate.
- It is used in underfloor heating.
- Excellent workability.
- High durability - Quick application.
- Suitable for 2-10mm thickness in one layer.
- Certified with CE - according to the European standard EN 13813.

SURFACE PREPARATION

The substrate should be levelled, free from loose particles, free of grease and oils. Detached plaster parts should be repaired with WRM 550. For application on plaster, concrete, masonry the substrate slightly

wetted. Very absorbent substrates should be primed with GLX 292 FLEX PRIM. Non-absorbent substrates such as old paving, marble, mosaics, etc. should be primed with GLX 190.

METHOD OF PREPARATION-APPLICATION

In a clean container add the emulsion (5kg), the pigment and stir well. Stir the liquid mixture to homogenize and then empty the content of the 25kg bag under continuous stirring and fill with the necessary quantity of water (1,5-2 kg) until the formation of a uniform slurry without lumps. Let the mixture rest for 3 minutes, stir again and use. Apply the product by combing the substrate with a notched trowel in 1-3mm thickness. Once the material starts to dry apply a second layer using a flat trowel and if required by the application apply a third one or more (provided that there hasn't been preceded varnish application) until you achieve the desired effect or shade. Once the material hardens it can be sanded if desired by using suitable sandpaper in order to achieve a smoother

surface finish. 48 hours after the application the product should be covered with a suitable protective varnish from **THRAKON** range (depending on application) for sealing the surface. For application in thickness greater than 3mm, on substrates that will be imposed to high loads, are subject to shocks and vibrations or on cracked substrates it is recommended to apply fibreglass mesh (**CLIMAPLUS** - 160g/m²) embedded in the first layer of the application of the microcement coating. Avoid mixing different batches in the same area (possibility of a different shade) and avoid mixing with sand, gypsum, cement, resins or other binders. When the mixture has started to set and it is no workable anymore, it must be rejected.



FINAL SURFACE PROTECTION

Priming:

After at least 48 hours from the application of **DECOR** proceed in preparing microcement coating to receive the protective varnish. We must be very careful, especially during the winter months to make sure that the material has dried thoroughly and completely and has remove all moisture from its mass. The rule is to wait 1 day/mm layer thickness. In this step, we apply 2 coats **DECOR PRIM** primer at the same day (the second coat in applied after the first coat has dried), in order to achieve the stabilization of the microcement surface.

Varnish application:

The last stage of the system includes the selection of the final surface protection varnish. The choice should be made depending on the requirements and exposure conditions of microcement coating:

- **DECOR PROTECT**: water-based varnish for interior or exterior walls, walls and floors, where we have no stagnant water. Applied in 2-3 layers.
- **DECOR PU VARNISH**: 2-component polyurethane varnish for floors and for the most demanding applications. It provides high abrasion resistance to floors. It protects from UV radiation and is suitable for wet areas, stagnant water, rain, permanent immersion in water (showers, terraces, balconies, jacuzzi, etc.). It is applied at least in 3 layers depending on expected moisture loads and hydrostatic pressure.

* The moisture of the substrate should be <4% and the ambient humidity <65%. Additional the temperature during the application and curing of the varnish must be from 8°C to 35°C. In cases where we have lower temperatures or rainfall is expected in the next 48 hours, application should be postponed.

EXPANSION JOINTS

The expansion joints are necessary and we maintain them. We can apply perimeter expansion joints for indoor applications and every 35-40m² for outdoor applications. As an overall rule, for interiors, the maximum application surface without expansion joint should not exceed 8 to 10 meters, while outdoors the length should not exceed 7 meters. If expansion joints exist in the substrate they should not be covered by the

microcement system, as it may lead to crack formation. This applies to expansion joints indoor and outdoor.

The sealing of the expansion joints of the **DECOR** system can be made with covering profiles or with suitable **THRAKON** sealants (**BACKER ROD, ELASTO PU**).

CONSUMPTION

Approximately 1,5kg/m²/mm of layer thickness.

CLEANING TOOLS AND MACHINERY

With plenty of water immediately after use.

PACKAGING – STORAGE

The mortar (part A) is packed in 25kg bags and the polymer emulsion (part B) in 5kg plastic containers. They kept stored on wooden pallets in a dry environment at temperatures higher than 0°C for 12 months from the date of production.

The technical information and guidelines in this brochure relating to the application and end-use of Thrakon's products is based on the Company's current expertise and experience on the products and are given in good faith provided they are properly stored, used and applied in accordance with the guidelines given by Thrakon. Given that we are unable to directly inspect the conditions that prevail at the work site as well as the application of the product, the Company shall not provide any guarantee regarding the suitability of its products for any particular purpose and disclaims any legal responsibility, which is based on written information in this brochure, written or oral or otherwise provided recommendations and guidelines. By applying the product in a small area, users are advised to test the product's suitability for the intended application and purpose. Thrakon reserves the right to amend the properties of its products without prior notice. All orders are accepted only after acceptance of the above and under the Company's respective Trade Policy terms. This version of the technical data sheet automatically cancels any previous version.

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HELPFUL TIPS

- Do not apply the product:
 - a) When there is frost forecast for the next 24 hours from the application of the microcement coating.
 - b) On humid conditions (such as rain).
 - c) On walls exposed to direct sunlight or on hot substrates.
- The application of the system should be carried out by professional teams.
- The application of the polyurethane varnish **DECOR PU VARNISH** to protect the microcement coating in areas with

permanent presence of water and/or hydrostatic pressure, such as jacuzzi, showers, exterior floors, etc. is made in 3 or more layers.

- The surface on which the system will be applied, it must be properly prepared (repaired and primed).
- The application of **THRAKON** microcement system doesn't differ in case of underfloor heating.
- In applications where they will be filled with water (e.g. jacuzzi) the procedure of filling with water should be made 7 days after the application of the DECOR PU VARNISH and 28 days after the application of the microcement mortar DECOR.

PRECAUTIONS

DECOR product contains cement and reacts with water, producing an alkaline solution. Therefore protect eyes and skin. In case of contact rinse thoroughly. In case of contact with eyes, seek medical advice immediately. Read the

information on the label and in the Technical leaflet of the product before use. Wear suitable protective clothing and gloves. MSDS of the product are available upon request to the professionals.

EUROPEAN STANDARD EN 13813 – CATEGORY CT - C20 - F5

TECHNICAL CHARACTERISTICS	UNITS	STANDARD	VALUE
Form			Dry powder
Color			White
Application temperature	(°C)		+5 to +35
Temperature resistance	(°C)		-30 to +90
Maximum grain size	(mm)		0,3
Workability time	(h)	EN 1015-9	≥2
Minimum thickness for wall application , gypsum board, cement board	(mm)		2
Minimum thickness for smooth floors	(mm)		2-3
Minimum thickness for rough floors	(mm)		4-5
Minimum thickness for old paving	(mm)		2-3
Minimum thickness for damp areas (bathrooms, swimming pools, external floors, etc.)	(mm)		3
PU VARNISH layers on surfaces that don't come in contact with water	(layers)		≥2
PU VARNISH layers on surfaces that come in contact with water	(layers)		≥3
Compressive strength	(N/mm ²)	EN 1015-11	≥20,0
Flexural strength	(N/mm ²)	EN 1015-11	≥6,0
Capillary water absorption coefficient	(kg/m ² *min ^{0,5})	EN 1015-18	≤ 0,20
Consumption	(Kg/m ² γα 1cm)		1,5

Note: The measurements were taken in laboratory environment under a temperature of +23°C, Relative humidity 50 % and without ventilation. It is possible for them to vary depending on the conditions prevailing at the worksite, such as temperature, humidity, ventilation, absorbability of the substrate.