

# DECOFLOOR METALLIC EP

## Decorative Metallic Effect Smooth Floor System

### Description:

DECOFLOOR METALLIC EP is a decorative self-smoothing flooring system, low odour and low viscosity, transparent, epoxy resin, blended with Metallic Powders which are special effect pigments composed of mica nano-particles coated with various organic and inorganic pigments to create pearlescent and iridescent effects.

### Applications:

DECOFLOOR METALLIC EP is designed as a decorative system for use in environments such as:

- Life science, pharmaceutical industries and health care industry.
- Education (e.g. schools and universities).
- Leisure & culture (e.g. museums, stadiums, galleries).
- Retail (e.g. shopping malls, department stores.)
- Corridors, garage floors, banks, restaurants, kitchens, hotels, ect.)

### Uses:

- High aesthetic qualities, customized designs, wide arrange of colours.
- Low maintenance.
- Low VOC-content with natural odour.
- Smooth, gloss finish, as well slip resistant surface possible.
- Durable, impermeable and seamless.
- High abrasion resistance.
- Stylish and unique design with multi-dimensional colour hues.

### Instructions for Use:

#### Surface Preparation:

Surface must be clean, sound and dry. Remove dust, laitance, grease, curing compounds, any bond inhibiting impregnations, waxes or any other contaminants. All projections, rough spots, etc.

should be dressed off to achieve to achieve a level surface prior to the application.

Concrete should be cleaned and prepared to achieve a laitance and contaminant-free, open textured surface by shot blasting or equivalent mechanical means (ICRI/CSP 3-4). Sweep and vacuum any remaining dirt and dust with a wet/dry vacuum. Removing residual dust will help ensure a tenacious bond between the primer/coating and the substrate. Whenever "shot-blasting" is utilized, be careful to leave concrete with a uniform texture. "Over-blasting" will result in reduced coverage rates of the primer and/or subsequent topcoats. The "shot blast" pattern may show through the last coat, known as "tracking". The compressive strength of the concrete substrate should be at least 24 Mpa (3,500 psi) at 28 days and at least 1.5 Mpa (215 psi) in tension at the time of application.

#### Priming:

For best results, prime the surface with ARMOPRIME EP100, a two component solvent free epoxy primer. The surface may also be primed with a coat of pigmented high performance epoxy – ARMOFLOOR EP500. A white or light primer background color will create a lighter final appearance; conversely, a black or dark primer background color will darken the metallic appearance. Allow the primer to cure before applying the metallic coat.

#### Metallic coat

#### Mixing:

Add the premeasured DECO METALLIC series pigment to the part A under continuous mixing until blended. Add Part B to the Part A/ Décor Metallic blend and mix thoroughly using a low speed drill and a jiffy type mixer till homogenous. Mix only the amount of material that can be applied within the pot life.

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## Application:

Spiked show are required throughout application. Select the spreader.

- Notched squeegee or gauge rake
- Premium quality rollers ranging in nap size from 3/8" to 1/2" with phenolic core
- DE fuzz roller by wrapping tightly with masking tape and removing tape.
- Large areas may require 18" rollers & wider squeegees. Transfer the mixed product evenly over the primed surface in ribbons and spread using either a roller or squeegee as the natural self-levels. Areas adjacent to wall may be "cut in" by brush. Back roll the metallic coat after achieving the appropriate coverage.

Randomly swirl the metallic coat with a smaller roller in no particular fasten. The swirling motion will soften as the pigments settle into a pleasing platen with the most dramatic effects occurring when eh pigments are allowed to migrate with e film. Spritzing the surface with denatured alcohol with ad mobility to the DECOFLOOR METALLIC EP. Other special effects can be created using compressed air, squeegees and other methods.

\_\_\_ the mixes so that stages are consistently aligned. If outgassing occurs, there is the option to use a spiked roller within the first 15-20 minutes of application. Allow the finish to dry and cure sufficiently.

**Top coat:** For superior abrasion and chemical resistance, DECOFLOOR METALLIC EP should be protected by a finish coat EPOCLEAR OR UV Clear.

## Packaging:

DECOFLOOR METALLIC EP is available in 25 Kg bags.

## Coverage:

Approximately 1.0 sq. meter liter of DECOFLOOR METALLIC EP will cover 1.5 sq. meter at 1.0 mm thickness.

## TECHNICAL PROPERTIES

|   |   |  |
|---|---|--|
| Color   | : | Refer to the MATEX DECOFLOOR METALLIC COLOR CARD |
| Solids (by volume)                                  | : | 100%   |
| VOC   | : | 15 g/ltr   |
| Pot life at 25°C                                    | : | 40 mins  |
| Cure Time   | : | 24 hrs (light traffic)<br>7 days (full cure)     |
| Compressive Strength (ASTM C 579)                   | : | 70 N/mm <sup>2</sup>                             |
| Flexural Strength (ASTM C 580)                      | : | 40 N/mm <sup>2</sup>                             |
| Tensile Strength (ASTM C 638)                       | : | 27 N/mm <sup>2</sup>                             |
| Adhesion to concrete                                | : | 2.4 N/mm <sup>2</sup><br>(concrete failure)      |
| Hardness Shore D                                    | : | 80   |
| Abrasion Resistance (ASTM D 4060, CS17, 1000 cycle) | : | 47 mg  |
| Application Temp                                    | : | +5°C - 30°C                                      |
| Service Temp  | : | +5°C - 80°C                                      |

## Shelf Life:

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

## Cleaning:

Clean tools with ARMOSOLVENT immediately after use. Allow unused product to harden in container & dispose according to local regulation.

## Limitations:

- DECOFLOOR METALLIC EP floors can produce unique effects, but while the process is simple, same practice is required to develop the best application techniques.
- Do not apply DECOFLOOR METALLIC EP if there is moisture vapor drive or hydrostatic pressure.
- Do not designed for direct exposure to UV Light
- For professional use only.

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## Health and Safety:

- Use goggles and gloves during application. Do not breathe the vapor of the product. Use only in well ventilated areas.
- Avoid contact with eyes or skin. In case of contact with eyes, clean with plenty of clean water and seek medical assistance.
- Avoid direct contact with flames and fire.
- Before use, read MSDS of the product.

MATEX Rev.00-0719

This technical data sheet is not considered as local building codes. It shall be used as general reference for the product, based on our current knowledge and experience. However the company do not accept any liability arising from the use of its products as it has no direct control on how and where the product is applied.



P.O. BOX: 29585, Dubai, UAE, Tel: +971 4 333 4140, Fax: +971 4 333 4115  
Email: [info@matex.ae](mailto:info@matex.ae), [www.matex-global.com](http://www.matex-global.com)