

SOLIDKOTE METALLO

Unique Decorative Metallic Epoxy Resin Flooring System



New and exciting seamless flooring system that provides a unique and decorative three-dimensional floor finish incorporating reflective pigments with metallic effects.

Solidkote Metallo is available in various colours which allows for the designing of floors that are elegantly stylish to outrageously bazaar. Solidkote Metallo is suited to a multitude of indoor applications and to any commercial or residential environment.

UNIQUE PRODUCT BENEFITS

- Decorative, attractive finish.
- Unique, customizable.
- High abrasion resistance.
- Seamless flooring system which is easy to maintain with a hygienic finish.
- Fast installation.
- Non-dusting.
- Taint free to sensitive food consumables.

TECHNICAL DETAILS

Compressive Strength	> 55 MPa	BS6319
Tensile Strength	> 15 MPa	
Flexural Strength	> 30 MPa	
Concrete Adhesion	> 1.5 MPa (Concrete failure)	ASTM D7234
Impact Resistance	1 kg > 1.8 m 2 kg > 1.5 m	ISO6272-1:2011
Hardness	80	Shore D
Slip Resistance	Dry >70 Wet >25	TRRL Pendulum Slip Test
Water Uptake (Permeability)	Nil	Karsten Test
Solids Content	100%	
Pot Life	35 min @ 20°C	
Foot Traffic	12 to 16 hrs	
Heavy Traffic	24 hrs	
Chemical Resistance	Refer to chemical chart	
Coverage	Max 5 to 6 m ² / L	
Application Temperature	15 to 28°C	
Dry Film Thickness	1.15 mm (Total system)	

PACKAGING

Solidkote Metallo (5 L or 15 L kit)

Part 1	Epoxy Resin
Part 2	Hardener
Part 3	0.1 kg / 5 L Mixed Resin (Solidkote Metallo Pigment)

Solidkote Metallo Primer (5 L or 15 L kit)

Part 1	Epoxy Resin (RAL Colour)
Part 2	Hardener

Leading manufactures of specialist epoxy and polyurethane flooring systems, specialised construction and corrosion protection products.

Distribution facilities nationwide

Western Cape

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Eastern Cape

+27 (0)41 451 3944

Gauteng

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KwaZulu-Natal

+27 (0)31 705 7733



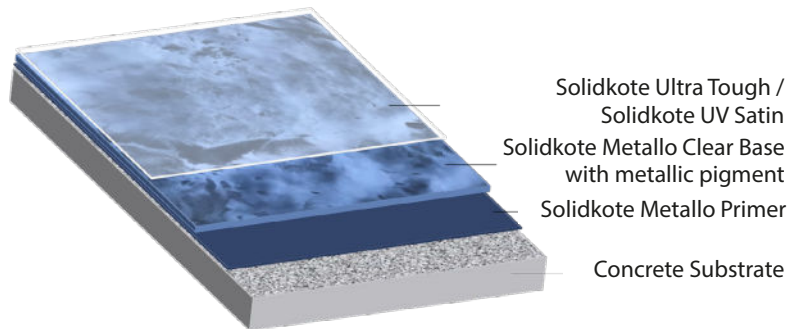
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TECHNICAL FINISHES
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APPLICATIONS

- Restaurants.
- Hospitality - Front of house.
- Automotive showrooms.
- Concrete floor protection.
- Bars, clubs, retail stores.
- Commercial and residential flooring.



SUBSTRATE REQUIREMENTS

Concrete substrates must have a minimum compressive strength of 20 to 25 MPa, a minimum tensile pull-off strength of 1.5 MPa and be free of oil, fat, grease, dust, and loose friable materials. The moisture content should be less than 5% and free from rising damp. The surface finish of the concrete should be class 2 (AS 3610).

Note: Any filling of blowholes / voids and surface levelling of substrate can be achieved using appropriate products within Technical Finishes Construction Range (please speak to one of our technical sales representatives).

PREPARATION

Remove all previous coatings, unbonded concrete and laitance mechanically through diamond grinding, abrasive blasting or scarifying to obtain a sound and porous surface (sandpaper texture). Sweep dust and loose debris followed by vacuuming, to obtain a dry and dust-free surface.

PRIMING

Ensure application conditions of 15 to 28°C and that the concrete moisture content is below 5%.

Prime with Solidkote Metallo Primer (RAL colours) at 250 µm. Allow primer to cure for at least 8 hours prior to application of Solidkote Metallo, with a maximum over coating time of 18 hours. The primer must show a visibly complete seal of the substrate.

INSTALLATION

Ensure application conditions of 15 to 28°C. Ensure adequate lighting to achieve an even and level spread. Installation should not be attempted unless application team is fully trained.

Mixing

Mix the supplied Solidkote Metallo Pigment Tint into the Part 1 (Solidkote Metallo Clear Base Resin) the day prior to the floor installation.

Mix Part 1 thoroughly with a mechanical mixer.

Add the Part 2 (Solidkote Metallo Clear Base Hardener) into Part 1 and stir using a mechanical mixer for 2 minutes. Ensure the mixing paddle scrapes the sides of the mixing vessel.

The mix should not be kept in the container as it will start to cure rapidly.

Placing

Pour out the mix onto the demarcated area in a long ribbon and spread the mix using a notched rake to obtain the correct coverage and smooth off with the flat edge of the trowel. A steel hand trowel may be used on the edges to assist with placing in smaller areas. After 10 minutes spike roll to assist with levelling and de-aeration. Ensure that the spike roller is rolled in a uniform direction.

Back roll the wet Metallo coat after achieving the desired thickness / coverage, then randomly swirl the wet Metallo coat in circular or random fashion which will flatten as the pigments begin to settle. Working time for this is approximately 20 to 25 minutes. Back roll a second time immediately after the first roll. The roller marks will settle. Once the first mix has been placed, the following mixes should follow one after the other until the entire floor is completely coated in one operation. Doorways and separate rooms may be taped off and coated at another time. Allow the Solidkote Metallo resin to cure for 8 to 10 hours.

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Ensure that airborne contamination does not settle on the surface during the curing period.

SEALING

Buff the surface down using a red pad on a polisher. Apply Solidkote Ultra Tough Clear finish coat for a gloss finish. Alternatively apply Solidkote UV Satin sealer this will produce a satin, silky smooth finish. Allow 3 to 5 hours between coats.

MAINTENANCE

Regular cleaning extends the service life of the Solidkote Metallo system. Maintenance is to be carried out using Liquid Action which complies with SANS 1344 Medium Duty Solvent Detergent (2112/P3325/10/ID).

HEALTH AND SAFETY

Please read Safety Data Sheet and specific health and safety data for this product provided in compliance with the requirements of OHS Act No.85 of 1993. The finished system is not hazardous to health or the environment.

WARRANTY

Technical Finishes products are manufactured under high quality standards and are warranted against defective materials and are sold subject to standard Terms and Conditions of Sale, copies of which can be obtained upon request. Technical Finishes deals with approved applicators and carry a back to back warranty with these clients. Technical Finishes cannot be held responsible for the workmanship in surface preparation and application of our products, it is understood that the approved contractor will guarantee such workmanship and application. It is vital that the application is done in accordance to our specification.

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