

SOLIDKOTE METALLO

Unique Decorative Metallic Epoxy Resin Flooring System



Solidkote Metallo is an exciting seamless flooring system that offers a unique and decorative three-dimensional finish, incorporating reflective pigments with stunning metallic effects.

Available in a wide range of colours, Solidkote Metallo allows for the creation of floors that range from elegantly stylish to boldly avant-garde. This versatile flooring solution is perfect for a multitude of indoor applications, making it ideal for both commercial and residential environments.

UNIQUE PRODUCT BENEFITS

- Decorative, attractive finish.
- Unique, customizable.
- High abrasion resistance.
- Seamless and 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	See system build-up	
Application Temperature	15 to 28°C	
Dry Film Thickness	± 800 um (Total system)	

PACKAGING

Solidkote Metallo Primer (5 L or 15 L kit)

Part 1	Epoxy Resin (RAL Colour)
Part 2	Hardener

Solidkote Metallo Clear (5 L or 15 L kit)

Part 1	Epoxy Resin Clear
Part 2	Hardener

Solidkote Metallo Colours (5 L or 15 L kit)

Part 1	Epoxy Resin (Colour)
Part 2	Hardener

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

Distribution facilities nationwide

Western Cape
+27 (0)21 535 4455

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APPLICATIONS

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

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

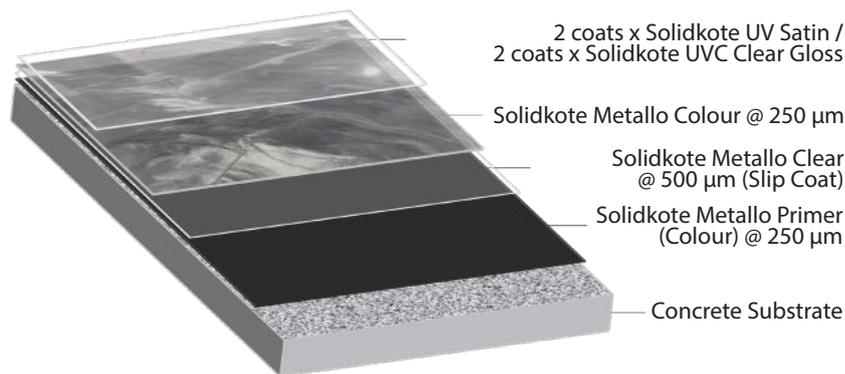
Remove all previous coatings, unbonded concrete and laitance mechanically through diamond grinding, abrasive blasting or scarifying to obtain a sound and porous surface (sandpaper texture). Sweep dust and loose debris followed by vacuuming, to obtain a dry and dust-free surface.

PRIMING

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

Prime the prepared surface 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.

Once cured, sand the surface with **180-grit sandpaper**. Remove the dust by solvent-wiping with **Solidkote 505** Epoxy Thinners.



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.

A 2-stage process where **Solidkote Metallo Colour** should be applied into the wet **Solidkote Metallo Clear coat** (slip coat) with the aid of spike shoes.

Stage 1 - Slip Coat (Solidkote Metallo Clear)

Add Part 2 (Solidkote Metallo Clear 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.

Pour out the mix onto the demarcated area in a long ribbon and spread the mix using a notched rake to obtain a thickness of 500 µm. Spike roll the surface to remove any bubbles. Immediately after application of the slip coat, begin with the below.

Stage 2 - Solidkote Metallo Colour

The Solidkote Metallo Colours are applied into the still wet clear slip coat as above. Mix Part 1 thoroughly using a mechanical mixer to re-suspend any settled pigments.

Add Part 2 (Solidkote Metallo Colour 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.

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Pour out the mixed Solidkote Metallo Colour into strategic areas onto the still wet clear slip coat. The orientation should be random, creating lines and veins into a decorative pattern. Multiple colours can be used in order to create a contrasting effect. The idea is not to cover the entire area with one colour but to use multiple colours in various patterns and lines to create the flowing and desired effect all while the colour of the primer still shows through the clear slip coat in random fashion to result in a mottled / abstract effect.

Using spike shoes and a medium-long hair mohair roller (ensure to remove any lint with tape) swirl the Metallo colours together in the form of S-shaped lines and circular motion. There is no set right or wrong method to perform this process but requires some imaginative thought and artistry. Allow the Metallo colours and the clear to fuse together and flow. Ensure that this process is complete within 20-30 minutes before the product begins to gel.

For added contrast more colours may be added to create a dramatic effect. Various shapes can be created from puddles to lines and geometric shapes if so desired. Ensure to keep a consistent method across the floor surface. Allow the floor to now cure for a minimum of 24 hours before proceeding with the final stages of sealers.

Doorways and separate rooms may be taped off before application and coated at another time. Ensure that airborne contamination does not settle on the surface during the curing period.

SEALING

After 24 hours, sand the cured surface with **180-grit sandpaper**. Remove the dust by solvent-wiping with **Solidkote 505** Epoxy Thinners.

Apply two coats of **Solidkote UV Satin** sealer to produce a satin, silky smooth finish.

Alternatively, apply two coats of **Solidkote UVC Clear Gloss** for a glossy finish.

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 OHSA 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 with our specification.

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