

## 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 environments.



### TECHNICAL DETAILS

Appearance	Clear resin with metallic effect
Colour	Various metallic
Finish	Gloss or satin
Application Thickness	Total system DFT: 1.15 mm
Mix Ratio	2 : 1 (A : B)
Mix Ratio Pigment	100 g / 5 L
Coverage	Max 5 to 6 m <sup>2</sup> / L
Pot Life	35 minutes @ 20 °C
Application Temp	10 to 30 °C
Touch Dry	5 - 8 hours
Light Traffic	16 hours
Full Cure	5 - 7 days
Shelf Life	12 months
<b>PACKAGING</b>	
Solidkote Metallo (15 L kit or 5 L kit)	
Part 1	Epoxy Resin
Part 2	Hardener
Part 3	0.1 kg / 5 L Mixed Resin (Metallo Pigment)

### BENEFITS:



*Unique, decorative, attractive finish. Customizable.*



*Durable, high build finish.*



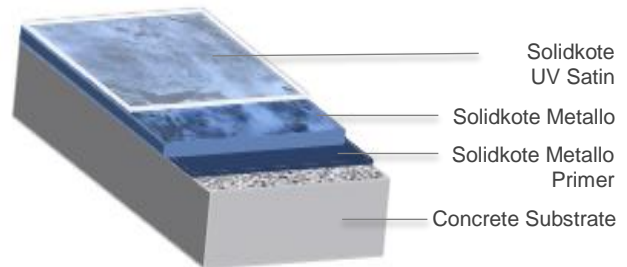
*Solvent free.*



*Chemical resistant.*



*Easy to mix and apply. Non-dusting.*



	Product	Description
<b>Primer</b>	Solidkote Metallo Primer	RAL Colours, 250 um, 4 - 6 m <sup>2</sup> / L
<b>Resin Floor</b>	Solidkote Metallo Clear Base	100 g metallic pigment per 5 L of clear base, 2 m <sup>2</sup> / L, 500 um
<b>Wearing Finish Coat</b>	Ultra Tough Clear	Solvent free Polyaspartic, 5 m <sup>2</sup> / L, 200 um
<b>Optional Matt Coat</b>	Solidkote UV Satin	Water-Based PU, 10 m <sup>2</sup> / L, 100 um

## APPLICATIONS:

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

## SUBSTRATE REQUIREMENTS

Concrete substrates must have a minimum compressive strength of 20 to 25 MPa and a minimum tensile pull-off strength of 1.5 MPa. The substrate must be clean, dry and free of dust, oil, grease, paints, glues, sealers, curing compounds, efflorescence, chemical contaminants, rust, algae, mildew & foreign matter that may serve as a bond breaker or prevent adhesion. 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 or shot blasting to a profile of 80 - 120 grit sand paper to achieve maximum adhesion. Sweep dust and loose debris followed by vacuuming, to obtain a dry and dust-free surface. All concrete must be cured for a minimum of 28 days depending on temperature and humidity. Resect all construction and movement

joints by marking out and cutting later once the system has fully cured. Seal the joints with Jointsealer 525.

## PRIMING

Ensure application conditions of 10 to 30°C and that the concrete moisture content is below 5%. Ensure humidity is less than 75%.

Should no vapour barrier be present, apply **Solidkote STP** before application of the **Solidkote Metallo Primer**.

Apply **Solidkote Metallo Primer** (RAL colours) at a rate of 250 um or 20 m<sup>2</sup> / 5 L using a squeegee and backroll to a uniform finish with a short Mohair roller. Allow the primer to cure for at least 8 - 10 hours before proceeding.

Check the primer for blow holes, dry patches or defects. Apply additional primer coat if necessary. The surface must be visibly sealed.

## INSTALLATION:

Ensure adequate lighting to achieve an even and level spread. Installation should not be attempted unless application team is fully trained.

Clean the surface of the cured primer with a 120 grit sand paper. The primer must appear lightly scuffed to ensure good adhesion and to eliminate any dust or foreign particles that may have settled onto the surface. Vacuum and wipe the primer surface with a small amount of Solidkote 505 Epoxy Thinner.

### Mixing

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

On site, mix Part 1 thoroughly with a mechanical mixer for 2 minutes to resuspend the pigments.

Add the Part 2 (Solidkote Metallo Clear Base Hardener) into Part 1 (with a slow speed paddle mixer at no more than 500 rpm) and mix for 2 minutes ensuring that the walls and the floor of the bucket are well scraped with the mixing paddle.

### Placing

Pour the entire contents of the mixed product out in a long ribbon for application or randomly as per desired result. For application of more than one colour, clean the mixing paddle and begin mixing the next colour

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immediately and pour out as above in random orientation into the already poured out first colour.

Do not leave any of the mixture in the bucket as this will begin to set rapidly.

Spiked shoes are required as the wet resin will need to be walked on during application. Using a 1.2 mm notched squeegee or gauge rake, pull the wet resin into place in a figure of eight (8) fashion from wall to wall. A hand held trowel / brush may be used along the walls or hard to reach areas.

Remove / de-fuzz all loose fibres from a short mohair roller (white roller) by wrapping tightly with masking tape and remove tape. 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 - 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. Doorways and separate rooms may be taped off and coated at another time. Allow the Solidkote Metallo resin to cure for 8 - 10 hours.

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

## SEALING

Buff the surface down using a soft white pad on a floor polisher. Vacuum the surface and wipe down with a small amount of Solidkote 505 Epoxy Thinner. 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.

## CLEAN UP

Clean all tools and equipment with Solidkote 505 Epoxy Thinners or Xylene. Avoid cleaning of the finished product with solvents.

## MAINTENANCE

After a period of time 2-3 years floors should be inspected and a new sealer coat applied to renew the surface.

Regular cleaning extends the service life of the Solidkote Metallo system. Maintenance is to be carried out by mopping with a dilute solution (1:10) of **Microclean** (Supplied by Technical Finishes).

## LIMITATIONS

For use by approved applicators with documented quality assurance. Strictly for interior use only on well drained concrete slab with appropriate vapour barrier, subject to no hydrostatic pressure. Protect the floor surface from metal wheeled traffic. Ensure furniture has rubber feet installed. Chemicals such as plasticizers used in tyre manufacturing may cause permanent markings.

## HEALTH AND SAFETY

Epoxy products are to be treated with care. In the event of skin contact, wash well with soap and warm water. Seek immediate medical assistance for eye contact. If sensitized towards epoxy products avoid all exposure.

Please read Safety Data Sheet and specific health and safety data for this product provided in compliance with the requirements of OHS 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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