

SOLIDKOTE IMPACT

Heavy Duty High Build Polyurethane Floor Coating



Solidkote Impact is a modified, multi-functional, high build, solvent-free, polyurethane resin flooring system with exceptional impact and abrasion resistance.

Solidkote Impact is designed to protect concrete and steel from abrasion and chemical attack while maintaining a tough, elastic and flexible form ideal for demanding industrial applications. Solidkote Impact can be safely used in areas where contact with food occurs or for coating potable water storage tanks.

UNIQUE PRODUCT BENEFITS

- Solvent-free.
- HACCP compliant.
- Seamless flooring system which is easy to maintain and easy to apply.
- Durable and impact resistant.
- Flexible.
- Chemical resistant.
- Low sensitivity to moisture.

TECHNICAL DETAILS

Bond to Concrete	> 1.5 MPa
Flexural Strength	> 15 MPa
Colour	Various
Components	Two
Appearance	Semi-gloss, satin finish
Thickness	0.25 - 1 mm
Pot Life at 20 °C	15 min.
VOC	Solvent-free, 0 g / L TVOC
Solids Content	100 %
Application Limits	Temp: 0 - 30 °C, RH. Max 75 %
Light Traffic Resistance	12 - 16 hours
Heavy Traffic Resistance	4 - 5 days
Elongation	> 30 %
Water Permeability	Nil

COVERAGE

Roller applied @ 250 µm	4 m ² / L
Trowel applied @ 500 µm	2 m ² / L
Rake Applied @ 1 mm	1 m ² / L

PRODUCT COLOUR RANGE:



*Product colours may differ from the ones shown above. For a full colour chart or for samples, contact your nearest Technical Finishes branch. UV exposure yellowing is more prominent in light colours yet does not affect performance.

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

Distribution facilities nationwide

Western Cape
+27 (0)21 535 4455

Eastern Cape
+27 (0)41 451 3944

Gauteng
+27 (0)11 822 7242

KwaZulu-Natal
+27 (0)31 705 7733



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APPLICATIONS:

- Heavy duty industrial flooring
- Chemical processing
- Food preparation / wet areas
- Brewing / dairy clean areas
- Engineering and processing
- Pharmaceutical
- Freezer and cold rooms
- Tank linings
- Metal surfaces
- Sports flooring

STORAGE

Store the product for no more than 6 months in original, unopened packaging in a cool dry place away from direct sunlight. If stored for more than 4 weeks, re-disperse the pigments before use.

SUBSTRATE REQUIREMENTS

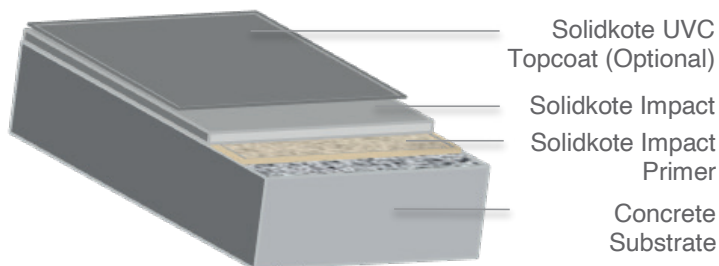
Concrete substrates must have a minimum compressive strength of 20 - 25 MPa, Grade 2 evenness and at least 28 days old. Relative humidity must be below 75% with substrate moisture less than 5%.

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

To be assured of maximum adhesion, physical and chemical properties, it is essential to diamond grind to remove all laitance, pre-existing coatings and contaminants to an exposed aggregate finish with a profile of 80 grit sand paper.

Remove all grease, oil, debris and contaminants with a suitable degreaser such as Liquid Action. Using a wet-to-dry vacuum to remove all washings and rinse water to speed up drying. Ensure that the substrate is fully dry, not more than 5% moisture content as product may react negatively to the presence of moisture, where necessary a moisture test may be required.



PRIMING

Prime the surface with **Solidkote Impact Primer**. On metal substrates priming is not required. Ensure that the primer is uniform, where a matt finish is prevalent or blowholes have appeared apply additional coats of primer or a scraper coat with the **Solidkote Impact** until a uniform, visibly sealed surface is obtained.

MIXING & APPLYING:

Mixing to be done with a mechanical power mixer. Mix the Solidkote Impact Resin (Colour component) to ensure a uniform consistency and to resuspend any fillers. Then add the full contents of hardener and mix for 2 – 3 minutes until a smooth, uniform consistency is achieved. Once mixed do not leave the mixed product in the mixing vessel as the reaction will begin to happen rapidly.

Application is either:

- roller applied if 250 µm, or
- self-levelling if 500 µm or more.

Roller applied

Pour out the mix onto the demarcated area in a long ribbon and apply with squeegee or short pile mohair roller ensuring the coat is rolled out evenly. Keep a wet edge and do not roll back onto the dry coating. A second coat may be applied after approximately 16 hours and within 48 hours.

Self levelling

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 (2 mm notched rake achieves a 800 µm film). A steel hand trowel may be used on the edges to assist with placing in smaller areas. Spike roll to assist with levelling and de-aeration. Ensure that the spike roller is rolled in a uniform direction.

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The total time of mixing and placing should be 10 to 15 minutes. 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. At this stage, do not spike roll again as this can lead to slight colour variations.

MAINTENANCE:

Maintain **Solidkote Impact** by regular mopping with Liquid Action (see TDS), this will maintain the system in serviceable conditions. Damaged areas of the system should be patch repaired / replaced in order to ensure longevity of the working area.

HEALTH AND SAFETY:

The raw materials used in this system have been tested by Campden and Charleywood (food authorities in Europe) as non-tainting and non-odour producing and suitable for use in food production areas.

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 to our specification.

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