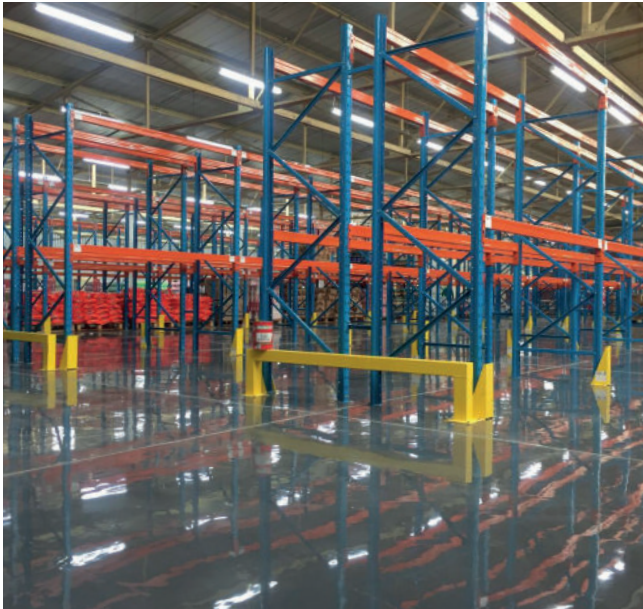


# SOLIDSCREED HT

## Solvent Free Epoxy Mortar Screed



Solidscreeed HT is a hand troweled, epoxy mortar screeding compound that is hardwearing and chemical resistant.

### UNIQUE PRODUCT BENEFITS

- High impact and abrasion resistance.
- Excellent scratch and mar resistance.
- Good stain and chemical resistance.
- Seamless and hygienic finish.
- Good thermal shock properties.
- Can be used as an epoxy mortar up to 10 mm.

### TECHNICAL DETAILS

|                                |   |               |
|--------------------------------|---|---------------|
| Compressive Strength           | > 70 MPa                                    | BS6319        |
| Tensile Strength               | > 10 MPa                                    |               |
| Flexural Strength              | > 25 MPa                                    |               |
| Concrete Adhesion              | >1.5 MPa<br>(Concrete failure)              | ASTM<br>D7234 |
| Hardness                       | 80  | Shore D       |
| Water Uptake<br>(Permeability) | Nil   | Karsten Test  |
| Thermal Resistance             | 60°C max dry                                |               |
| Chemical Resistance            | Consult technical department<br>for details |               |
| Application<br>Temperature     | 5 - 30°C                                    |               |
| Walk on Time                   | 24 hrs at 20°C                              |               |
| Full Cure                      | 7 days                                      |               |
| Application                    | Hand trowelled                              |               |
| Kit Yield                      | 10 L  |               |
| Profile                        | Smooth / non-slip                           |               |
| Dry Film Thickness             | 6 - 10 mm system                            |               |
| Coverage                       | 1 m <sup>2</sup> @ 10 mm                    |               |

### 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



**TECHNICAL FINISHES**  
SPECIALIST FLOORING AND CONSTRUCTION SOLUTIONS



info@technicalfinishes.com • www.technicalfinishes.com

## APPLICATIONS:

- Ideal for demanding, heavy duty industrial environments.
- Dry process areas.
- Epoxy mortar.

## SUBSTRATE REQUIREMENTS

Substrates must be a concrete screed Grade 2 evenness and 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 substrate should be dry to 75% RH (BS8204) and free from rising damp or ground water pressure.

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. Porous substrates or screeds may require additional primer or a scraper coat to fill in defects and blow holes.

## PRIMING

Ensure application conditions of 5 to 30°C.

Solidkote UP Epoxy Primer must be applied as the standard primer for concrete substrates. The primer is applied a minimum of 8 hours prior to the Solidscreed HT. The primer must show a visibly complete seal of the substrate. Should the primer be left for more than 18 hours before applying the topcoat, then broadcast fine silica sand into the wet primer. On old difficult surfaces that are damp, have existing coatings or contamination, apply Solidkote STP Primer which acts as a moisture barrier and ensures a good bond.

## INSTALLATION:

Ensure application conditions of 5 to 30°C. Ensure adequate lighting to achieve an even and level spread. Installation should not be attempted unless application team is fully trained.

### Mixing

Solidscreed HT is supplied in complete kits, A+B+C. Add the Hardener to Base A and mix thoroughly for 1 - 2 minutes using drill and helical spinner. Transfer to a rotary forced action mixer and add the Filler C and mix for a further 2 minutes until uniform. The mixed material should be used immediately for best results and within 20 minutes. Remember never to split batches / components. Incorrect mixing ratios or poor mixing can result in irregular hardening or variations in colour, etc.

### Placing

The mixed compound can be poured into a laying box and the box weighted. The box is then drawn at an even speed over the surface to be laid. After each run it is compacted and smoothed with a steel trowel by hand or power float.

Finishing with a smoothing machine should be carried out after two runs have been laid closing the sledge marks by hand before doing this. Alternately Solidscreed HT may be spread and applied by hand trowelling. In this case 5 mm screed bars should be used to accurately gauge the thickness of the applied product. Once spread to the desired thickness, compact and finish with a steel trowel.

Do not smooth closer to the edge than approx. 15 cm, this is to ensure the next mix can be correctly blended in with the last. To achieve the best coving results the floor, coves and skirting should be applied in a single procedure. If procedures are carried out before or after there will be a visible seam between the floor and cove. Check if the skirting should follow the floor, or be straight in the top edge. Limit the height with tape or a fixed edge trim before starting, and then prime the wall with Solidkote UP Epoxy Primer.

Apply the skirting compound in the wet primer with a coving trowel, Carefully smooth. If applied to a tape, draw the tape and brush to the top edge to obtain a smooth transition.

**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



info@technicalfinishes.com • www.technicalfinishes.com



**TECHNICAL FINISHES**  
SPECIALIST FLOORING AND CONSTRUCTION SOLUTIONS

## SEALING

Before applying a topcoat, the skirting, coves and floor should be scraped to remove all loose stones and high points. The surfaces should then be thoroughly vacuum cleaned. Apply Solidkote Robust at a nominal thickness of 500 microns. Do not mix more than can be used within 20 minutes.

Optional matt sealer: apply an additional layer of Solidkote UV Satin using short mohair or medium pile type rollers of high quality, always apply using a paint tray. Ensure that no fluff is expelled from the roller.

## 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.

***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



**TECHNICAL FINISHES**  
SPECIALIST FLOORING AND CONSTRUCTION SOLUTIONS



info@technicalfinishes.com • www.technicalfinishes.com