

## CAST QUARTZ



**Cast TB Screed EP 3mm Multicoloured solvent free epoxy screed.**

### DESCRIPTION

Cast TB Screed comprises of single size 0.4mm to 0.8mm coloured quartz, bound with solvent free epoxy resins to provide high strength, light duty, chemically resistant\* and decorative floor surface.

Applied at 3mm, Cast TB Screed can provide an attractive alternative to the heavy duty Screed Quartz system. Traction may be varied by the system design to a balance between slip resistance and ease of maintenance. (For low potential for slip in wet environments see the Cast Plus Quartz system.

### TYPICAL AREAS OF USE

- ◆ Food Preparation Areas (low impact Dry)
- ◆ Sports Changing rooms
- ◆ Light duty production areas (Dry)
- ◆ Commercial corridors
- ◆ Technology Rooms
- ◆ Dry Storage areas

### ADVANTAGES

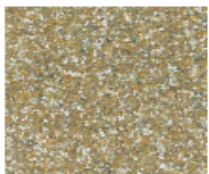
- ◆ Medium Impact Strength
- ◆ Abrasion resistant
- ◆ Can be laid to falls
- ◆ Vertical Application
- ◆ Chemically Resistant \*
- ◆ Attractive Colour Range

### RECOMMENDATIONS

Dry Areas where slip resistance is not seen as a priority.  
 Slip Potential: Wet – High Dry –Moderate

For Regular Wet / Contaminated Floors: see Grip Systems.

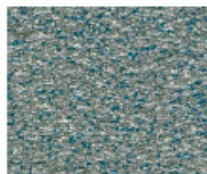
### Standard Colour Chart



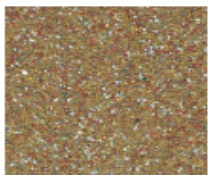
Tweedsmuir



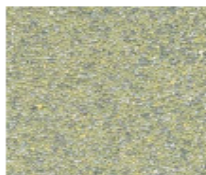
Exmoor



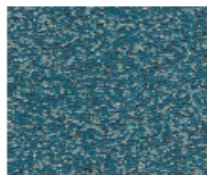
Highland



Dartmoor



Mendip



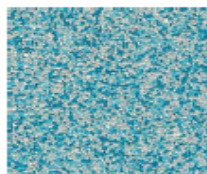
Malvern



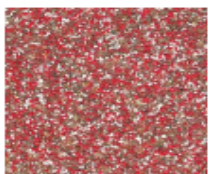
Brecon



Peak



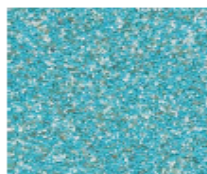
Wicklow



Sidlaw



Southdown



Cullin

# CAST TB TECHNICAL DATA SHEET

## Suitable Substrates Include

Concrete, Granolithic, Performance Screeds, Stone, Terrazzo, Brick, Timber / WBP, Metal.

NOTE: Calcium Sulphate screeds are not suitable to receive this product.

## Standard Colours

Tweedsmuir, Exmoor, Highland, Dartmoor, Mendip, Malvern, Brecon, Peak, Wicklow, Sidlow, South-down, Cuillin.

## Natural Colours

Mountain, Rock, Cliff, Ravine, Dune, Desert

## Chemical Resistance

Cast TB Screed affords resistance to a range of commonly used chemicals.

\* Where known highly acidic or sugar based occasional spillage may occur then Seal UVR-SB seals must be used as final seal coats.

NB In all cases of chemical spillage, it is essential that the spillage be immediately removed and the surface washed down with clean water, removing water by wet vac after operation.

## Substrate Requirements

Surfaces should be dry, structurally sound and of sufficient strength (minimum 26N/mm<sup>2</sup> compressive) as well as being free from any contamination that may affect either the adhesion or penetration of Prim EP. All residues of old paint coatings, installation laitence and dust must be removed. Ensure that floors and walls have an effective DPM installed and that residual moisture does not exceed 5% by weight (75% R.H). BS 8203 1996.

## Preparation

Detailed instruction sheet covering all application procedures is available on request.

## Installation Conditions

Apply in well ventilated areas using a brush or a roller (not foam) for the Prime EP, and a clean stainless steel trowel or sledge to apply the Cast TB Screed system to the prepared primed substrate. Ambient conditions should be maintained at least 30C above dew point or below 75% RH during the initial stages of cure.

## Floor Joints / Detailing

Refer to instruction sheet. - RF1/07/00.

## COVERAGE 3.7 m<sup>2</sup> @ 3mm / 23 kg unit

Material usage is dependent upon temperature, surface profile and porosity; stated coverage rates should be referred to for guidance only and cannot be relied upon to determine exact quantities.

## Overcoating Times

Minimum 12 hrs. Maximum 24 hrs.

If this time period is exceeded at the primer or seal coat stages the surface should be lightly abraded and vacuumed before further coats are applied.

## Properties

Application Temperature 15<sup>0</sup>C – 20<sup>0</sup>C

Usable Working Life (100g @20<sup>0</sup>C) 30 mins

Foot Traffic 24hrs @ 20<sup>0</sup>C

Full Cure 7 days @ 20<sup>0</sup>C

## Typical Physical Properties

Hardness/Shore D 85

Taber Abrasion ASTM D4060

(Average wear-mm/H22 wheel/1000revs). 0.15mm

Slant/Shear Bond Strength 30.1N/mm<sup>2</sup>

Water Absorption (BS. 2782) + 0.9%

Compressive Strength (BS.6319) 75.6 N/mm<sup>2</sup>

Tensile Strength (BS 6319) 12 N/mm<sup>2</sup>

Flexural Modulus (ASTM D790) 202 MPa

Resin Density (BS.6319) 1.99g/cm<sup>3</sup>

Temperature of Deflection

(B.S 6319 part 10) 62.2 0C

## Packaging

Available in three part 23 kg composite pack.

## Mixing Procedure

### Prime EP

### Cast TB Screed

Using a slow speed drill and whisk (MM17 with MR2 whisk\*), Pour all the base and hardener contents into a suitable clean or polypropylene steel mixing vessel drum (RM65\*) and mix for 1<sup>1</sup>/<sub>2</sub> minutes.

Add the full contents of the aggregate into the pre mixed binder and mix for a further 2- 3 minutes in the RM65\* twin paddle forced action mixer.

(Remember to always use the correct PPE).

## Application

### Cast TB Screed

Ensure that the surface has been vacuumed well after preparation, and the Prime has sealed the surface without leaving any hungry areas (primer should be lightly seeded with 0.7 to 1.2 quartz aggregate) Apply the mixed Cast TB Screed using a sledge or Stainless trowels. Ensure that the system is being laid to the desired depth and fully closed off to leave a uniform compact surface.

# CAST TB TECHNICAL DATA SHEET CONTINUED

## **Shield Seal Clear.** (Seal coats x 2)

Ensure the surface is contamination free, and has been de-nibbed and vacuumed as necessary. Using a slow speed drill and whisk (MM17 with MR2 whisk), pour all the hardener into the base unit and mix the contents for 1 1/2 minutes. Apply to the Shield Seal Clear using a soft rubber squeegee, working the shield Seal Clear into the surface to fully grout the system, thereon laying the seal off using a medium nap low loss roller to leave a uniform finish. Apply the second coat in the same manner.

## **Optional**

### Seal UVR-SB Clear (Seal coats x 2)

This product should be applied in the same manner and after the application of the Shield Seal clear where a higher chemically resistant seal is required.

## **Cleaning**

All tools and equipment should be regularly cleaned using Solve EP to reduce build up and maintain the quality of the installation. Ensure that the correct PPE is worn at all times.

## **Storage**

Ensure that the product is received in good order and store in a dry frost free environment, ideally between 15°C and 20°C for at least three days before laying. Excessively high and low storage temperatures will affect the laying performance of the product.

## **Disposal**

Due diligence must be adopted if accidental spillages occur. Recover using absorbent granules, transferring into a suitably marked container. All empty containers and accidental spillages should then be disposed in accordance with the local waste disposal authority.

## **Associated Data Sheets And Further Information**

- Chemical resistance chart
- Floor maintenance – resin based products
- Storage and Handling – resin based products
- Material Safety Data Sheets (COSHH)