

# TUFFLOOR EPOXY PRIMER KC

## JAN 23

**DESCRIPTION:** A 2K Epoxy primer used to promote adhesion and bond strength of TUFFLOOR 41 SL, TUFFLOOR 2KPU and TUFFLOOR PA to cement based substrates. TUFFLOOR EPOXY PRIMER KC is a filled epoxy primer that can also be used to incorporate sand to provide a self-levelling base layer.

**TYPICAL USES:** Priming of concrete floors. Such places include foodstuffs sector, clean rooms, abattoirs, milking sheds, dairy factories, automotive, machinery and manufacturing environments, the chemical industry and other medium to heavy industries.

**PERFORMANCE** Excellent adhesion and bond strength.

**LIMITATIONS:** Do not apply when relative humidity is over 85%, ambient and substrate temperature is between 13 and 35°C. Not for exterior use, or on graded surfaces. Keep dry and ensure substrate is 3°C above dew point for at least 24 hours after application. Do not apply to dusty, friable, or unstable substrates. Check Cotec specification for suitable TUFFLOOR SYSTEM and preparation.

#### TECHNICAL DATA:

Resin:	Two Component Epoxy
Solvent:	Solventless
Finish:	Gloss (70% @ 60°)
Colour:	Neutral
Pot Life:	60-70 minutes @ 20°C
Touch Dry (minimum):	10 hours @ 20°C
Recoat Time (minimum)	10 hours @ 20°C
	Dry time is Longer in winter.
	Full cure is 7 days@20°C RH 50%.
Number of Coats:	1-2 (surface porosity dependant)
Film Thickness:	0.4mm 0.58 kg/m <sup>2</sup> per coat
	0.5mm 0.73 kg/m <sup>2</sup> per coat
Durability:	
Thinning and Clean Up:	DO NOT THIN*
	Clean up with 107
VOC:	60 g/litre
Mixing Ratio:	4:1 by weight
Pack Size:	20 Kg

#### SPREAD RATE:

Theoretical Coverage: 0.6-0.7 kg/m<sup>2</sup>/coat.  
Coverage depends on surface profile and porosity.

#### PRODUCT CODES:

TUFFLOOR PRIMER KC 61-1100.20

Coating Technologies Limited, 10 Andromeda Crescent, East Tamaki, Auckland 2013, New Zealand

Phone: 0064 9 837 0897 [www.cotec.co.nz](http://www.cotec.co.nz)

Technical information given verbally or in writing is based on knowledge and research, given in good faith and believed to be reliable, but no guarantee of accuracy is made or implied. Since methods and conditions of use are beyond our control, all merchandise is sold and received subject to the condition that our liability whether express or implied for any defect in quality, or for any lack of fitness for the specified use thereof, is limited to the return of the purchase price if a written claim is made within 14 days from the date of delivery. It is recommended that the user makes his or her own tests to determine the suitability of the product for his own requirements.

Freedom from patent restrictions is not implied.

## TUFFLOOR 41 SL EPOXY

### **SURFACE PREPARATION:**

(Refer to “[https://cotec.co.nz/Guides/Surface Preparation](https://cotec.co.nz/Guides/Surface%20Preparation)” for full details). To ensure a successful application, all surfaces to be coated must be clean, dry, stable, and Flat.

All cracks and joints need to be treated as appropriate to suit the situation. Do not expect paint to bridge moving cracks/joints successfully. Any mould, moss or algae needs to be treated with TRUEPREP GREEN-KILL. Ensure surfaces are free from oil, grease, and any surface contamination, use TRUEPREP SURFACE CLEAN, following instructions, not acid wash.

Note: Commencement of work on a surface means in general you accept that surface. If any doubt about condition etc, seek advice. (Refer Information sheets PS-C006 Making Concrete Clean and Dry, PS-C007 Making Concrete Oil Grease Free MAR 20)

Do not apply the product directly on substrates with moisture content higher than 4% and/or with capillary rising damp (Check information sheet PS-C004 The Moisture Content of Concrete). The temperature of the substrate must be at least 3°C above the dew-point temperature.

### **CONCRETE, CEMENT PLASTER, OLD AND NEW:**

Any cement laitance present on the surface to be treated must be removed mechanically. Chase out all cracks and Seal with the specified TUFFLOOR sealer. Fill with EPOTEC EPOXY BOG 1:1, allow to dry, sand. Repair expansion joints with GEMBOND EPDM.

For optimum results, abrasive grind the surface to achieve a uniform, open profile (Diamond grinding recommended). We recommend that this is carried out by a concrete grinding specialist. Surface contamination such as oil, grease etc. needs to be thoroughly removed before grinding, as this will adversely affect adhesion and visual appearance of the coating.

Before applying the first coat all traces of dust must be removed from the surface with a vacuum cleaner or water wash and substrates must receive adequate preparation and then be treated with primer.

New concrete may also be prepared by light grinding or treatment with CONCRETE ETCH applied via broom or spray. Allow the reaction to occur for 15-20 minutes before washing off with potable water. Allow to dry. Refer to information sheet PS-C001 Acid Etching of Concrete with HCl.

### **MIXING:**

1. Premix part A to smooth consistency for up to 3 minutes. (Low speed drill 300-400 rpm being careful not to entrap air)
2. Pour all of part B into part A container and mix to a homogenous consistency. Mix as above.
3. Spatula during mixing to ensure all product is well mixed (sides and bottom of pails)

### **APPLICATION:**

1. Check conditions are suitable for application
2. Pour out PRIMER KC to the substrate in a smooth even ribbon.
3. Spread PRIMER KC with roller or squeegee and back-roll in cross hatch to even out thickness.
4. Use all the mix and ensure the product is well worked into the surface, spread to ensure wet film thickness is achieved. Measure as required.
5. Brush all inside edges of construction, expansion, control and isolation joints to ensure that they receive a consistent film.
6. Complete the joint treatment by placing backer rods and appropriate joint sealant (GEMBOND EPDM) before application of epoxy and polyurethane coatings.

If using sand for increased mechanical bond contact Cotec Technical services.

**AIM TO COMPLETE APPLICATION OF THE MIXED CONTAINER PRIOR TO END OF POT LIFE.**

**Coating Technologies Limited, 10 Andromeda Crescent, East Tamaki, Auckland 2013, New Zealand**

Phone: 0064 9 837 0897 [www.cotec.co.nz](http://www.cotec.co.nz)

Technical information given verbally or in writing is based on knowledge and research, given in good faith and believed to be reliable, but no guarantee of accuracy is made or implied. Since methods and conditions of use are beyond our control, all merchandise is sold and received subject to the condition that our liability whether express or implied for any defect in quality, or for any lack of fitness for the specified use thereof, is limited to the return of the purchase price if a written claim is made within 14 days from the date of delivery. It is recommended that the user makes his or her own tests to determine the suitability of the product for his own requirements.

Freedom from patent restrictions is not implied.

Spread and Back-roll	Pour the mix onto the floor and spread out evenly using a squeegee. Back-roll with a Wooster pro-dooz Sleeve
Roller:	Use a 10-13mm nap Wooster Pro-dooz roller sleeve.
Spray:	Recommend an airless unit. Pressure 2,500psi max and a 321. Graco 895 or larger *Add up to 10% EPOTEC 107 Thinner if necessary. Back-Roll with a 10-13mm nap Wooster Pro-dooz roller sleeve to ensure even spread.

End of pot life is observed by a rapid increase in pot viscosity. Note: In hot weather the pot life will be shortened.

Prior to recoating, test the coating by pressing your thumb into the coating for 2 seconds. Recoat only if no impression is made in the coating. Recoat within 5 days. If longer than 5 days elapses before recoating surface should be first sanded using 120-150 grit sandpaper. Thoroughly remove sanding dust by vacuuming and washing.

#### NOTES:

If rooms where the product is being applied need to be warmed up, do not use heaters that burn hydrocarbons, otherwise the carbon dioxide and water vapour given off into the air will affect the sheen of the finish and may ruin its appearance. Use electric heaters only.

Protect the product from water for at least 24 hours after application. Vehicle, folk hoists, and other heavy equipment should not be used on the finished system's surface for 7 days or until the coating has fully cured. If rapid return to service is required refer to Cotec Specification tool- Performance: Industrial Rapid Service Return.

#### THINNING & CLEAN UP:

Maximum thinning 10% for Spray application. ONLY thin after parts A and B have been homogenously mixed in together. Clean up with 107 Thinners.

#### ENVIRONMENTAL:

DO NOT POUR paint or wash down storm water or water courses. ALWAYS dispose of in accordance with local Government regulations. Soak up spills with absorbent material and dispose of properly. If spraying use suitable respiratory protection. Refer to the MATERIAL SAFETY DATA SHEET.

**Coating Technologies Limited, 10 Andromeda Crescent, East Tamaki, Auckland 2013, New Zealand**

Phone: 0064 9 837 0897 [www.cotec.co.nz](http://www.cotec.co.nz)

Technical information given verbally or in writing is based on knowledge and research, given in good faith and believed to be reliable, but no guarantee of accuracy is made or implied. Since methods and conditions of use are beyond our control, all merchandise is sold and received subject to the condition that our liability whether express or implied for any defect in quality, or for any lack of fitness for the specified use thereof, is limited to the return of the purchase price if a written claim is made within 14 days from the date of delivery. It is recommended that the user makes his or her own tests to determine the suitability of the product for his own requirements.

Freedom from patent restrictions is not implied.