

# TECH SL

## 1mm Epoxy Self- Level Flooring System

<b>PRODUCT DESCRIPTION</b>	TECH SL is a 4-component solvent free epoxy resin based flooring system applied @ 0.5 mm to 2 mm thickness.
<b>WHERE TO USE</b>	<p>As a high build coating or self-levelling floor topping for:</p> <p>Automobile &amp; Engineering units</p> <p>Electronics / electrical / Plastics industry</p> <p>Food processing industry</p> <p>Chemical / pharmaceutical industry</p> <p>Textile &amp; paper Industries</p> <p>Power stations</p> <p>Schools &amp; Institutions</p> <p>Laboratories and rooms subject to radiation Clean rooms, exhibition halls and showroom</p> <p>Wet and dry process areas i.e. beverage industry, bottling plants, Dairies, meat processing plant etc.</p> <p>Warehouses, logistics, loading bays and ramps</p> <p>Aviation Hangars.</p>
<b>CHARACTERISTICS/ ADVANTAGES</b>	<p>Excellent self levelling properties</p> <p>High mechanical properties</p> <p>Good abrasion resistance</p> <p>Good chemical resistance</p> <p>High durability</p> <p>Coloured &amp; excellent gloss</p> <p>Solvent free</p> <p>Easily cleaned &amp; maintained</p> <p>Waterproof</p>
<b>APPEARANCE / COLOUR</b>	<p>Part A - Resin:-clear, liquid</p> <p>Part B - Hardener: -clear, liquid</p> <p>Part C – Colour paste (EPI) : colour as per Jemkon shade card.(Not supplied in set, to be procured separately)</p> <p>Part D - Filler:- aggregate powder</p>
<b>PACKAGING</b>	17.120 Kg
<b>STORAGE / SHELF LIFE</b>	24 months from date of production if stored in original, unopened and undamaged Sealed packaging, in dry conditions at temperatures between +5°C and +35°C.
<b>CHEMICAL BASE</b>	Epoxy
<b>DENSITY</b>	Mixed (A+B+C+D): ~1.5 g/cc
<b>MECHANICAL / PHYSICAL PROPERTIES</b>	
<b>ABRASION RESISTANCE</b>	40 mg weight loss (wheel cs 17, 1 kg load, 1000 cycles)
<b>COMPRESSIVE</b>	~ 60 Mpa (Astm D 695)
<b>FLEXURAL RESISTANCE</b>	~ 45 MPa (ASTM D 790)
<b>TENSILE STRENGTH</b>	~ 30 MPa (ASTM D 882)
<b>SHORE HARDNESS D</b>	85
<b>APPLICATION DETAILS</b>	
<b>CONSUMPTION /DOSAGE</b>	TECH SL ~ 1.5 kg/m <sup>2</sup> / for 1mm thickness.
<b>SUBSTRATE QUALITY</b>	The concrete substrate must be sound and of sufficient compressive Strength (minimum 25 N/mm <sup>2</sup> ) with a minimum pull off strength of 1.5 N/mm <sup>2</sup> . The substrate must be free of all contaminants such as oil, grease, coatings and surface treatments etc. If in doubt, apply a test area first.



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**SUBSTRATE PREPARATION** Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.

Weak concrete must be removed and surface defects such as blow holes and voids must be fully exposed. Repairs to the substrate, filling of blowholes/voids and surface levelling must be carried out using appropriate Jemkon products.

**SUBSTRATE TEMPERATURE** +8°C min. / +35°C max.

## MIXING

Stir Component A (Resin) first for approx. 15 seconds to remove any settling. Add component C (Color Paste) and slowly without dumping add Component D (Filler) and mix for approx. 2 minutes with low speed mixer until homogenous. Finally add Component B (Hardner) and further mix for 1 to 2 minutes until the mixture is homogeneous and the material is uniformly dispersed. Only mix the required quantity for application as per ratio given on the container.

Over mixing must be avoided to minimise air entrainment.

Use a low speed electric stirrer (300 - 400 rpm) or other suitable equipment.

**APPLICATION PROCESS & TOOLS** Prior to application, confirm substrate moisture content. If > 4% moisture content, Jemkon Tuffcem may be applied as a Temporary Moisture Barrier (TMB) system.

Make sure that a continuous, pore free coat covers the substrate.

Apply TECH SL by brush, roller or trowel.

## RECOMMENDED UNDERCOATS & OVERCOATS

Primer : : TECH 20 / TECH 24 / TECH MCPU

Screed : : TECH 60

Sealer : : TECH 24 / TECH 60

Top coat : Tech PU SL / TECH SL / Tech FC / Aquathane flooring series

**CLEANING OF TOOLS** Clean all tools and application equipment with Jemkon's ET 901 Thinner, immediately after use.

## CURING DETAILS

POT LIFE	Temperatures	Time
	+25°C	~ 20 minutes

WAITING TIME/OVERCOATING	Temperatures	Minimum	Maximum
	+25°C	12 Hours	24 Hours
	(Optional) Light sanding advised after maximum time.		

APPLIED PRODUCT READY FOR USE	Temperatures	Minimum	Maximum
	+25°C	24 Hours	-
	Times are approximate & will be affected by changing ambient & substrate conditions.		

**CLEANING/ MAINTENANCE** Spillage of any kind should be cleaned quickly.  
Use mild detergent & water to clean the coating regularly.  
Scrubbing can be done by using soft bristles.

**VALUE BASE** All technical data stated in this technical Data Sheet are based on laboratory tests.  
Actual measured data may vary due to circumstances beyond our control.

**HEALTH AND SAFETY** For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

**LEGAL NOTES**

The information, and, in particular, the recommendations relating to the application and end-use of Jemkon's products, are given in good faith based on Jemkon's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Jemkon's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Jemkon reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Technical Data Sheet for the product concerned, copies of which will be supplied on request.