

Technical Data Sheet

Edition : 30/08/2016

VER : 01

TECH SL

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1mm Thick Epoxy Resin Based Flooring System

Product Description

TECH SL is a 4-component solvent free epoxy resin based flooring system applied @ 1 mm thickness.

Where to Use

As a high build coating or self-levelling floor topping for:

Automobile & Engineering units
Electronics / electrical / Plastics industry
Food processing industry
Chemical / pharmaceutical industry
Textile & paper Industries
Power stations
Schools & Institutions

Laboratories and rooms subject to radiation Clean rooms, exhibition halls and showroom
Wet and dry process areas i.e. beverage industry, bottling plants, Dairies, meat processing plant etc.

Warehouses, logistics, loading bays and ramps Aviation Hangars.



Characteristics/ Advantages

Excellent self levelling properties
High mechanical properties
Good abrasion resistance
Good chemical resistance
High durability
Coloured & excellent gloss
Solvent free
Easily cleaned & maintained
Waterproof

Appearance / Colour

Part A - resin:-clear, liquid
Part B - hardener: -clear, liquid
Part C – colour paste (EPI) : colour as per Jemkon shade card.(Not supplied in set, to be procured separately)
Part D - filler:- aggregate powder

Packaging

17.120 Kg

Storage Conditions / Shelf Life

12 months from date of production if stored in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between +5°C and +30°C.



Chemical Base	Epoxy
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Density	Mixed (A+B+C+D): ~1.5 to 1.6 g/cc
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Mechanical / Physical Properties

Compressive Strength	60 N/mm ²
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Flexural Resistance	31 N/mm ²
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Tensile Resistance	23 N/mm ²
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Abrasion Resistance	50 mg weight loss (Taber Abraser), 28 days
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Adhesion	>1.5 N/mm ²
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Shore D Hardness	80
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Application Details

Consumption / Dosage	Self smoothing topcoat TECH SL ~ 1.5 to 1.6 kg/m ² /mm 1 set of TECH SL will cover 10 - 11 sqm @ 1mm thickness.
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Substrate Quality	The concrete substrate must be sound and of sufficient compressive Strength (minimum 25 N/mm ²) with a minimum pull off strength of 1.5 N/mm ² . 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. High spots can be removed by grinding. All dust & loose material must be completely removed from all surfaces before application of the product, preferably by brush or vacuum.
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Substrate Temperature	+8°C min. / +40°C max.
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Mixing

Stir Component A first for approx. 15 seconds.
 Add component B, and mix for approx. 30 seconds with low speed mixer.
 While mixing, add simultaneously but slowly (DON'T DUMP!) component C (colour paste EPI) and Component D (filler) within 30 seconds.
 Further mix for 1 minute until the mixture is homogeneous and the pigment is uniformly dispersed.

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 Epoxy Thinner (ET 901) immediately after use.

Potlife

Temperatures	Time
+25°C	~ 15 minutes

Waiting Time / Overcoating

Substrate temperature	Waiting time	
	Minimum	Maximum
+25°C	12 hours	24 hours Light sanding required after maximum time.

Curing Details**Applied Product ready for use**

Substrate temperature	Waiting time	
	Minimum	Maximum
+25°C	24 hours	-

Note: Times are approximate and will be affected by changing Ambient and 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.

