

Technical Data Sheet

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VER : 01

TECH FC 200

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2-K Polyurethane (P.U.) Interior Finish Flooring

Product Description TECH FC 200 is a two component interior medium gloss polyurethane topcoat providing outstanding durability and resistance properties.

Where to Use

It is recommended for use as a topcoat for
Automobile units
Engineering units
Food processing industry
Chemical/pharmaceutical industry
Power stations
Plastics industry
Laboratories and rooms subject to radiation
Clean rooms, exhibition halls and showroom
Wet and dry process areas ie.
beverage industry, Bottling plants,
Dairies, meat processing plant etc.
Warehouses, loading bays and ramps
Aviation Hangars



**Characteristics/
Advantages**

Fast dry and hardness development.
Excellent appearance with a class A finish.
Excellent application characteristic
Very good colour and gloss retention
Compatible with wide range of primers.
Excellent physical & chemical properties.
Resistance to splash & spillage of mild chemicals, acids & alkalis.

Appearance / Colour

Part A - Resin : coloured, liquid (as per Jemkon Shade card)
Part B - Hardener : clear, liquid

Packaging

3 & 60 lt

**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 +35°C.



Chemical Base	Polyurethane
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Density	mixed: ~1.15 to 1.3g/cc
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Mechanical / Physical Properties

Impact Resistance	passes
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Water Resistance	No effect	Water Immersion	-96 hrs
	No effect	Water Spot Test	24 hrs

Chip Resistance	excellent
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Flexibility	passes	1/8" mandrell,
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Pencil hardness	passes	2H pencil
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Application Details

Consumption / Dosage	TECH FC 200 ~ 0.30 to 0.35 lt/m ² for 2 coats @ 150 – 200 micron
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Substrate Quality	<p>The concrete substrate must be sound and of sufficient compressive Strength (minimum 25 N/mm²) with a minimum pull off strength of 1.5 N/mm².</p> <p>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.</p>
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Substrate Preparation	<p>Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.</p> <p>Weak concrete must be removed and surface defects such as blow holes and voids must be fully exposed.</p> <p>Repairs to the substrate, filling of blowholes/voids and surface levelling must be carried out using appropriate Jemkon products.</p> <p>High spots can be removed by grinding.</p> <p>All dust & loose material must be completely removed from all surfaces before application of the product, preferably by brush or vacuum.</p>
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Substrate Temperature	+10°C min. / +40°C max.
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Mixing

Mix content of each component thoroughly with low speed power agitation. Make certain no pigment remains on the bottom of the can. Then combine Part A & Part B as per recommended ratio. Thoroughly agitate the mixture with power agitation. Re-stir before using.
If reducer solvent is used, add only after both components have been thoroughly mixed.

Application Process & Tools

Make sure that a continuous; pore free coat covers the substrate. If necessary, apply two priming coats. Apply TECH FC 200 by brush, roller or spray.

Recommended Undercoats & overcoats

Primer : TECH 20 / TECH 24 / TECH MCPU
Top coat : TECH FC 100 / 200 / 222 / 333

Cleaning of Tools

Clean all tools and application equipment with Jemkon Epoxy Thinner (ET 901) immediately after use.

Potlife

Temperatures	Time
+25°C	~ 20 minutes

Waiting Time / Overcoating

Substrate temperature	Waiting time	
	Minimum	Maximum
+25°C	4 hours	12 hours

Light sanding required after maximum time.



Curing Details

Applied Product ready for use

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

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.

