

2K Aromatic Solvent Based Polyurethane Coating

PRODUCT DESCRIPTION	TECH FC 200 is a two component medium gloss polyurethane topcoat providing outstanding durability and resistance properties used for interior applications.
WHERE TO USE	<p>It is recommended flexible finish coat for interior coating application on wood, concrete, steel, plaster, etc.</p> <p>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</p>
CHARACTERISTICS/ ADVANTAGES	<p>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</p>
APPEARANCE / COLOUR	<p>Part A - Resin : Coloured, Liquid (As Per Jemkon Shade Card)</p> <p>Part B - Hardener : Clear, Liquid</p>
PACKAGING	3 & 60 lt
STORAGE / SHELF LIFE	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.
CHEMICAL BASE	Polyurethane
DENSITY	Mixed: ~0.9 to 1.3g/cc
MECHANICAL / PHYSICAL PROPERTIES	
ABRASION RESISTANCE	30 mg weight loss (Wheel CS 17, 1 kg load, 1000 cycles)
FLEXIBILITY	Passes 1/8" mandrell,
ADHESION	~ 9.5 Mpa (Astm D 4541)
TENSILE STRENGTH	~ 38 MPa (ASTM D 882)
SHORE HARDNESS D	90
PENCIL HARDNESS	Passes 2H pencil
APPLICATION DETAILS	
CONSUMPTION /DOSAGE	TECH FC 200 ~ 0.33 lt/m ² for 2 coats @ 100 micron. (2 coats recommended)
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.
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. Repairs to the substrate, filling of blowholes/voids and surface levelling must be carried out using appropriate Jemkon products.</p>
SUBSTRATE TEMPERATURE	+8°C min. / +35°C max.



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MIXING

Stir Component A (Resin) and Component B (Hardner) first individually for approx. 15 seconds to remove any settling. Only mix the required quantity for application as per ratio given on the container. Mix for 1 to 2 minutes until the mixture is homogeneous and the material is uniformly dispersed. If reducer solvent is used, add only after both components have been thoroughly mixed.

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

Make sure that a continuous; pore free coat covers the substrate. 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's ET 901 Thinner, immediately after use.

CURING DETAILS
POT LIFE

Temperatures	Time
+25°C	~ 30 minutes

WAITING TIME/OVERCOATING

Temperatures	Minimum	Maximum
+25°C	2 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.