TECH 60

3-Component Epoxy Self-Smoothing Screed

Product Description

TECH 60 is a three part self-smoothing screed based on epoxy resin. The Product is formulated for application thickness of 1-10 mm.

Where to Use

As a self-smoothing for:
Levelling layer under epoxy, polyurethane and PMMA floor coatings / screeds, tiles, sheet floors, carpet or wooden floors.
Levelling or patching horizontal concrete surfaces in new work or repairs, particularly in aggressive chemical environments.

Characteristics/ Advantages

Economical
Fast and easy application
Excellent adhesion to substrate
High strength
High chemical resistance
Good levelling properties
Solvent free
Seamless

Appearance / Colour

Part A - resin:- brown / grey, liquid
Part B - hardener: - dark brown, liquid
Part C - filler:- aggregate powder .(Not supplied in set, to be procured separately)

Packaging

7 & 28 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 +35°C.

Chemical Base

Epoxy

Density

Mixed (A+B+C) : ~ 1.5 to 1.7 g/cc

Mechanical / Physical Properties

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ISO 9001:2008

Compressive Strength	~ 58 N/mm^2	(14 days / +27°C)	(IS 9162-1979)
Flexural Resistance	~ 32 N/mm^2	(14 days / +27°C)	(IS 9162-1979)
Adhesion	> 1.5 N/mm^2	(failure in concrete)	(ISO 4624)

Application Details

Consumption / Dosage	Self smoothing screed TECH 60 ~ 1.5 to 1.7 kg/m2/ @ 1mm Thickness.
Substrate Quality	The concrete substrate must be sound and of sufficient compressive strength (minimum 20 N/mm^2) with a minimum pull off strength of 1.5 N/mm^2. The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc. If in doubt, apply a test area first.
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. The concrete or screed substrate has to be primed or levelled in order to achieve an even surface. High spots can be removed by grinding. All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush or vacuum.
Substrate Temperature	+8°C min. / +40°C max.
Mixing	Prior to mixing, stir part A mechanically. When all of part B has been added to part A, mix continuously for 30 seconds & gradually add part C & mix for 1 minute until a uniform mix has been achieved. Only mix the required quantity for application as per ratio given on the container. Over mixing must be avoided to minimise air entrainment. TECH 60 must be thoroughly mixed using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment.

Application Process & Tools

Mix TECH 60 & pour on the floor.
Spread to the desired thickness using a notched squeegee, trowel or screed bar. Take care to spread newly mixed materials across the transition of previous applied mixes before the surface begins to set. Immediately spike roll the surface to release trapped air. Allow a minimum 14 hour cure period at 20ºC before light traffic.

Recommended Undercoats & overcoats

Primer : TECH 20 /TECH 24 / TECH MCPU
Screed : TECH 60
Sealer : TECH 24 / TECH 60
Top coat : 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℃	~ 15 minutes

Waiting Time / Overcoating

	Waiting time	
Substrate temperature	Minimum	Maximum
+25°C	8 hours	24 hours Light sanding required after maximum time.

Curing Details

Applied Product ready for use

	Waiting time	
Substrate temperature	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.

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