



TECHNICAL DATA SHEET

T 12 ES

Epoxy floor screed

DESCRIPTION

- T 12 ES is a three component, high performance, trowel applied epoxy mortar designed for use as coving in areas where cleanliness and hygiene is of prime importance. It has outstanding wearing properties with high chemical resistance. Ideally suited for aggressive areas where a seamless, joint free finish is required.

• USAGE

- Laboratories & clean rooms
- Food and beverage production
- Abattoirs
- Dairies
- Pharmaceutical manufacturing
- Warehouses and storage areas

FEATURES

- Tough & hard wearing: durable with low maintenance cost
- Good abrasion resistance
- Resistant to a wide range of chemicals and liquids
- Seamless: easily cleanable to maintain high standards of hygiene
- Hygienic and non-tainting
- Supplied in pre-measured packs for ease of mixing and consistency

RECOMMENDED USAGE

FEATURES

- Tough & hard wearing: durable with low maintenance cost
- Good abrasion resistance
- Resistant to a wide range of chemicals and liquids
- Seamless: easily cleanable to maintain high standards of hygiene
- Hygienic and non-tainting

Supplied in pre-measured packs for ease of mixing and consistency

TECHNICAL DATA

Mixed Density	: 1.90 g/cc
Pot life	: 45mins
Drying Times	
Setting Time	: 45 hrs
Full cure	: 7days
Bond strength (7 days)	: 1.5 N/mm
Compressive strength	: 70 N/mm
Flexural strength	: 23 N/mm
Tensile strength	: 11 N /mm
VOC	: < 450 gm/ liter

COVERAGE ESTIMATES

TITAN PAINTS AND CHEMICALS LIMITED

Door No -305, Pollachi Main Road, Sundarapuram,
Coimbatore, Tamilnadu, India. Pin: 641021
lpdrd@titanpaints.in; lpdsales@titanpaints.in



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Pack size	Coverage
15.00 kg	Approx. 7-8RMT @ 2"x2" thick
Part A 1.5 kg	Approx. 6.5 RMT @ 3"x3" thick
Part B 0.9 g	
Part C 12.6kg	

Drying Times

(H: Hour, D: Day)		25°C	40°C
Set to Touch		1H	2H
Dry Hard		8H	6H
Over coating Interval with recommended topcoats	Min.	6H	4H
	Max.	Extended*	Extended*

**Ensure sanding with 220 emery before over-coating*

SURFACE PREPARATION

Note: The substrate should have a surface tensile strength of at least 1.5 N/mm².

The substrate must be hard, sound and free of dust and other barrier materials such as paint, lime coatings, plaster, curing agents, laitance, adhesive residues etc., which will inhibit adhesion to the substrate. All vertical surfaces must be of a rigid construction to resist deflection during the application process. Use a suitable degreaser to remove polish, wax, grease, oil and similar contaminating substances prior to mechanical preparation.

Contaminated substrates should be mechanically prepared, either by grinding or contained shot blasting equipment or similar, and be vacuumed clean. Overwatered or otherwise weak concrete surfaces must also be suitably prepared down to sound, solid concrete by mechanical methods. Dust and other debris should be removed using vacuum equipment .

ABRASIVE BLAST CLEANING

PRIMING

All substrates must first be primed with T 12 ES . One or more coats may be required depending upon the condition and porosity of the substrate. Ensure that the primer is tacky prior to application of T 12 ES

Mixing

The individual contents Part A & Part B should be thoroughly stirred before being mixed together. The entire contents of Part A and Part B should be poured in to a larger mixing vessel to incorporate the Part C. Mix thoroughly with a spiral mixing paddle in a slow speed drill. Finally the Part C is added to the same container and continue mixing for two minutes to obtain a consistent homogenous mix. One or more packs may be mixed at the same time in order to maintain a quick rate of installation.

Application

The mixed material should be applied onto the prepared and primed tacky surface without delay using a trowel to achieve the desired thickness and coving profile.

Note:

- Do not overwork the surface and do not mix more than can be used within the working time. The work area should be protected during the installation process and during the initial curing time to ensure that no airborne debris can contaminate the surface of the wet resin as this will lead to unwanted blemishes in the hardened and cured surface.
- All movement joints in the substrate must be carried through the coving and properly sealed. Construction joints and cracks not subject to movement may be overlaid but should the substrate move in anyway, these defects will reflect through the coving.

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LIMITATIONS

The product should not be applied in temperatures less than 10°C or where the ambient relative humidity (RH) is greater than 85%.

APPLICATION DATA

Stir and mix the paint and hardener properly before use. Follow the mixing ratios correctly. Use the recommended thinners and don't over thin the paint more than the recommended levels.

Mix Ratio	: 4 part(s): 1 part(s) by
Airless Spray	: Tip Range 1.6 mm
Air Spray (Conventional)	: Use suitable proprietary equipment
Brush	: Typically 35 - 45 microns can be achieved
Pot-life	

(H: Hour)	25°C	40°C
Pot-life	4H	3H

Thinner	: Titan Epoxy Thinner
Dilution Ratio (by volume)	:
Brush and roller	- 5% Max.
Airless spray	- As appropriate and lesser than 10 %
Air assisted spray	- 5-10% Max

APPLICATION PRECAUTIONS

During mixing and application the following precautions should be observed: Ensure adequate ventilation and avoid contact of the material with the eyes, nasal passages, mouth and unprotected skin. Avoid contact with the hands by wearing protective gloves and by using, if necessary, a suitable barrier cream. In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice and after contact with the skin wash immediately with plenty of soap and water. Prolonged contact with the skin should be avoided, especially where the user has an allergic reaction to resin-based materials. Always wear gloves and eye/face protection as necessary. Observe personal hygiene, particularly washing the hands after work has been completed or at any interruption whilst work is in progress. Care should be taken when removing gloves to avoid contaminating the insides. In case of accidents seek medical advice.

SAFETY FEATURES

Keep out of reach of children. Use personal protective equipment's like goggles, face masks, gloves.

In case of contact with eyes or skin, immediately rinse or wash appropriately using plenty of water and seek medical advice if any sort of irritation persists.

Do not inhale the vapour or spray.

In case of ingestion seek immediate medical attention.

This product is intended to be used only in industrial environments by qualified applicators.

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STORAGE AND TRANSPORTATION

T 12 ES has a shelf life of 12 months if kept in a dry, clean store between 5°C and 30°C in the original unopened containers. The product should be protected from frost, away from direct sunlight and sources of heat.

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