

Flowcoat SF41 LE

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Description

Flowcoat SF41 LE is a solvent-free, coloured, 2-component low-VOC epoxy thin layer, high build coating.

Features and Benefits

- Can be used as primer, basecoat and topcoat
- Excellent wear and scratch resistance
- Enhanced UV stability
- Benzyl alcohol free, low VOC content and emissions

Usage Purpose

Designed for all public and industrial areas where mechanical and chemical resistance paired with high indoor air quality is required. Due to its versatility and possible application as smooth and slip-resistant coating, Flowcoat SF41 LE can provide a robust wearing layer for highly trafficked public spaces as well as manufacturing, processing and warehousing zones.

Packaging

The product is delivered as A+B in the following packs:

Unit 24.3 kg (16.9 liters) - Part A: 19.8 kg, Part B: 4.5 kg

Part A = Flowcoat SF41 LE A

Part B = Flowcoat SF41 LE B

Available Colour

Product is available in the following standard colours:

Goosewing Grey 222, Light Grey 232, Window Grey 2012, Mid Grey 280, Sand Beige 326, Pastel Blue 452, Tile Red 637, Pastel Green 740

Non-standard colours available upon request.

Shelf Life

12 months from manufacture day (on the package) when stored in the original, unopened pack.

Storage

Store in dry area, in unopened, original containers in temperatures +5 °C to +40 °C. Protected from freezing, out of direct sunlight, moisture or contaminant ingress.

Certificates & Approvals

CE according to EN 13813 (when used as part of complete system)

Eurofins Indoor Air Comfort Gold (as part of Flowcrete LE range)

Technical Data Sheet

Flowcoat SF41 LE

Technical Characteristics

Appearance		A: Pigmented liquid B: Straw-coloured liquid
Mixing Proportions	A / B	4.4 / 1 by weight 2.8 / 1 by volume
Mixed Density	EN ISO 2811	~1.44 kg/dm ³
Solid Content		~100 %
Pot Life In +20°C		~30 min
Curing Time In +20°C		Touch dry: after 5 hours Light foot traffic: after 16 hours Full load: after 48 hours Full cure: after 7 days
Overcoat Interval in +20°C		16 - 24 hours
Technical Information On Cured Product		
Shore D Hardness	EN ISO 868	~80
Wear Resistance	EN 13892-4	AR0.5 (< 50 µm)
Adhesion To Substrate	EN 13892-8	B2.0 (≥ 2 MPa)
Application Conditions		
Ambient Temperature Range		+15 °C - +25 °C
Substrate Temperature Range		+10 °C - +25 °C
Ambient Relative Humidity		< 75 %
Substrate Relative Humidity		<5% (TRAMEX scale or 85% RH BS 8203)

Application Conditions - Additional

To ensure best application behaviour of material it is recommended to condition the containers for at least 24 hours in +15 °C - +25 °C prior to application.

In abovementioned temperatures resin flow is optimized for best application effect and assumed material consumptions can be maintained.

During application and initial curing of product, substrate temperature needs to be at least 3 °C higher than dew point temperature.

Do not allow ambient temperature to drop below +5 °C during first 24 hours after application.

High humidity in the early stages of cure can result in white, matt surfaces (blooming)

Substrate Preparation

Substrate needs to be dry, clean, free of laitance and other contaminants that could reduce bond strength of applied coatings. Surface should be prepared by mechanical means – e.g. by shotblasting, grinding, milling etc. All cracks and floor damage has to be repaired before installation of flooring.

Detailed requirements for substrate and other application conditions can be found in Substrate Requirements for Flowcrete Floor Systems.

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Mixing

Stir Part A before adding Part B. Carefully empty Part B into Part A. Mix using a low-speed mixer and helical spinner and ensure that the material is thoroughly mixed, taking care not to entrain air. Finally pour the material into another container and mix for a further minute before application.

For further information contact our Technical Department.

Application

Primer / bodycoat

Pour mixed material onto the substrate in stripes and distribute with rubber squeegee, followed by evening out using a medium-pile, nylon paint roller.

Porous substrates might require more than one priming coat.

Fresh, uncured material can also be broadcasted with quartz sand if an anti-skid surface is required.

Topcoat

Immediately after mixing, apply Flowcoat SF41 LE using a rubber squeegee or rubber squeegee / roller in order to achieve a uniform surface. Use a medium-hard rubber squeegee (e.g. Stiwex rubber squeegee or double-lipped rubber squeegee) and replace if necessary in order to achieve an even coat. Rolling is to be done to smooth out the surface, not to move material.

To avoid glossy patches, make sure that material does not pool on the structured surface

Coverage

As primer / bodycoat in smooth systems: ~0.25 -0.30 kg/m²

As topcoat

Smooth: ~0.25 -0.30 kg/m²

In scattered systems material consumption is mainly influenced by size of aggregate used for broadcast and expected final roughness of surface. Typical coverage rates are listed below:

Quartz sand 0.3-0.8 mm: ~0.6 kg/m²

Quartz sand 0.6-1.2 mm: ~0.8 kg/m²

Quartz sand 1.0-1.8 mm: ~1.0 kg/m²

Quartz sand 1.4-2.0 mm: ~1.2 kg/m²

Tool Cleaning

Uncured material can be cleaned using solvent (acetone, xylene), cured remains can be removed only by mechanical means.

Guarantee / Warranty

Tremco CPG warrants all goods to be free from defects and will replace materials proven to be defective but makes no warranty as to appearance of colour. The information and recommendations herein are believed by Tremco CPG to be accurate and reliable.

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Health And Safety Precautions

Follow the appropriate Occupational Health and Safety Guidelines applicable to the location where the application is undertaken. For more information, please refer to the safety datasheets for the individual components.

Technical Service

Contact Tremco CPG (Country Name)