Technical Data Sheet

Flowcoat SF41

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Description

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



Features and Benefits

- Can be used as primer, basecoat and topcoat
- Excellent wear and chemical resistance
- Easy application and very good hiding power
- Easy to clean
- Low maintenance

Usage Purpose

As a self-priming coating system in light to medium use trafficked areas, easy to clean, chemical resistant floor systems with smooth or anti-slip finish.

It is designed to be used in processing, manufacturing, packaging and warehousing areas subjected to heavy foot and pallet truck traffic.

Packaging

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

Unit 14 kg (10 liters) - Part A: 11.3 kg, Part B: 2.7 kg
Unit 25 kg (17.9 liters) - Part A: 20.2 kg, Part B: 4.8 kg

Part A = Flowcoat SF41 A
Part B = SL/TL/SF41/ESD SF41 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.

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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)

Technical Characteristics

Appearance		A: Pigmented liquid B: Straw-coloured liquid
Mixing Proportions	A / B	4.2 / 1 by weight 2.7 / 1 by volume
Mixed Density	EN ISO 2811	~1.40 g/cm³
Solid Content		~100 %
Pot Life In +20°C		~40 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		10 - 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 to +25°C
Substrate Temperature Range		+10°C to +25°C
Ambient Relative Humidity		< 75 %
Substrate Relative Humidity		< 5% (TRAMEX scale or 85% RH BS 8203)

Application Conditions - Additional

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

When used in these conditions and temperature range, the resin flow is optimised resulting in the optimal material consumption rates.

During application and initial curing of the product, substrate temperature needs to be maintain above 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).

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Substrate Preparation

Substrates must 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 must be repaired before installation of flooring.

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

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-slip surface is required.

Topcoat
Immediately after mixing, apply Flowcoat SF41 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 to 0.30 kg/m²

As a topcoat
Smooth: ~ 0.25 to 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

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Tool Cleaning

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

Guarantee / Warranty

Tremco CPG UK Ltd products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with Tremco CPG UK Ltd written instructions and (b) in any application recommended by Tremco CPG UK Ltd, but which is proved to be defective, will be replaced free of charge. No liability can be accepted for the information provided in this leaflet although it is published in good faith and believed to be correct.

Tremco CPG UK Limited reserves the right to alter product specifications without prior notice, in line with Company policy of continuous development and improvement.

Health And Safety Precautions

Safety data sheet must be read and understood before use.

Technical Service

Tremco CPG UK Limited has a team of experienced Technical Sales Representatives who provide assistance in the selection and specification of products. For more detailed information, service and advice, please call Customer Services on 01942 251400.

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