

# Technical Data

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## SAFE STEP® 500SF

Part Code: Grey-43323 and Tile Red-43324  
Pack Size: 5 Litre

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### Description

SAFE STEP® 500SF is a heavy duty, 100% solvent free two component epoxy anti-slip coating.

SAFE STEP® 500SF provides superior resistance to chemicals and wear. Its solvent free character allows its use in odour sensitive applications such as food processing facilities, hospitals etc.

SAFE STEP® 500SF is resistant to most common acids, alkalis, solvents, petrol, jet fuels and other hydraulic fluids.



### Technical Data (Typical)

Colour:	Tile Red and Grey
Chemical Type:	Two pack solvent free epoxy
Mixed Density (Kg/L): BS3900A19	1.6
Pot Life (Usable life after mixing):	30-40 minutes @ 20°C
Average Curing Times: the figures are given as a guide only. Factors such as air movement and humidity must also be considered  Light Traffic: Heavy Traffic: Full Chemical Resistance:	  24 hours @ 20°C 48 hours @ 20°C 7 days
Theoretical Coverage Per Pack per coat: This figure makes no allowance for substrate profile, uneven application or losses in containers or rollers/brushes. Roller: Trowel:	 4.7 m <sup>2</sup> 5.4 m <sup>2</sup>
Chemical Resistance:	Refer to separate Guide 'Chemical Resistance Guide for ROCOL® Safe Step Anti-slip Coatings'
Shelf Life:	2 years
Flash Point:	c. 105°C
Application Temperature:	10-30°C
Volume Solids:	100%
EU limited value for this product (CAT A/j):550g/l (2007) / 500g/l (2010)	This product contains max.0g/l VOC
Storage Conditions:	10-30°C

T +44 (0) 113 232 2600  
F +44 (0) 113 232 2740  
E customer-service@rocol.com  
www.rocol.com

ROCOL House, Swillington, Leeds LS26 8BS

Registered Company No. 559693 VAT No. 742 0531 67  
Registered Office: Admiral House, St Leonard's Road, Windsor, Berkshire SL4 3DL

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Pendulum Slip Resistance (4S Slider – Product applied by roller and readings taken Perpendicular to the ridged profile: (BS7976)

Pendulum Test Values (PTV)

Slip potential classification

Dry – 93	(Low slip potential)*
Wet – 69	(Low slip potential)*
Oily – 48	(Low slip potential)*

\*Potential to slip as interpreted in the guideline from UKSRG, 2011 recommended by the HSE

Slip potential classification, based on pendulum test values (PTV)	PTV
High slip potential	0-24
Moderate slip potential	25-35
Low slip potential	36 +

## Surface Preparation

To ensure optimum adhesion of the floor coating it is vital that the correct quality and quantity of preparation is carried out initially.

Concrete should be at least 28 days old. Applying a coating onto concrete less than 28 days old could cause failure of the product.

All oils, grease, dirt, etc. must be removed using a suitable solvent or aqueous de-greaser solution.

All old coatings must be removed. This can be achieved by grit/shot blasting, scabbling or scarifying.

If the surface is not sufficiently rough to ensure a suitable key or where the surface of the concrete is weak the concrete must be etched using a suitable acid etch system if grit/shot blasting cannot be used.

Porous surfaces such as concrete and wood should be primed using SAFE STEP® Non-Metal Primer to seal the surface. Metal surfaces should be primed using SAFE STEP® Metal Primer.

For more detailed surface preparation on concrete or other surfaces contact the ROCOL® Site Safety Systems Technical Department.

## Application

SAFE STEP® 500SF is designed to be applied over a primer.

1. Pre-mix base component with a mechanical mixer such as a pneumatic drill motor with a jiffy mixing blade. Make sure all settlement is lifted off bottom of the container and is uniformly dispersed.
2. Pour entire contents of hardener can into base material and mix with a mechanical mixer (as above) for approximately 3-5 minutes or until mixed material assumes a uniform colour and appearance, scrape bottom and sides. Apply material immediately. No induction time is required.
3. Working pot (usable) life is approximately 30-40 minutes at 20°C. Pot life is increased at lower temperatures and decreased at higher temperatures.
4. SAFE STEP® 500 SF can be applied at surface temperatures between 10°C and 30 °C. Application is not recommended when surface temperature is above 30°C or below 10°C. At below 10°C curing time will increase substantially.
5. SAFE STEP® 500SF can be applied by hard roller or trowel.

## Application Techniques

For a tidy edge, mask off the area to be coated with masking tape. Remove masking tape whilst SAFE STEP® 500SF is still wet by pulling away from the area.

### Roller Application

Rolled applications provide the most aggressive non-slip characteristics with an irregular, ridged surface.

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**SAFE STEP® Hard Roller (Part code: 40666) & Roller handle (Part code: 40668) – Roller and handle not supplied with SAFE STEP® 500SF pack**

1. Use the SAFE STEP® 500SF hard phenolic coated, roller for applying SAFE STEP® 500SF.
2. Pour a pool of the mixed product onto the prepared substrate.
3. Roll material in one direction only, towards body in slow straight strokes using moderate pressure on the handle. Do not over-roll too many times or press down too heavily.
4. For maximum effect, rolling should be carried out perpendicular to the direction of traffic. Roll across ramps not down.

### Trowel Application

Trowelled applications provide excellent anti-slip characteristics with a rough textured finish.

1. Use a flexible bladed plasterer's finishing trowel approximately 10 x 30 cm. Wetting trowel with xylene will help improve surface finish.
2. Pour a pool of SAFE STEP® 500 SF onto the prepared surface.
3. Hold the trowel at 45 degrees angle to the surface. Pull material towards body with a sweeping motion reversing the angle on the opposite stroke.

## Surface Maintenance

It is essential that the SAFE STEP® 500 SF coating is cleaned regularly to maximise anti-slip performance. The use of a water based biodegradable detergent cleaner and a long handled fibre bristled brush or floor cleaning machine is recommended. After cleaning the surface should be rinsed thoroughly with clean water and allowed to dry.

## Limitations

Higher temperatures will shorten drying time and conversely, lower temperatures and high relative humidity will lengthen drying time. Exterior applications must be protected from rain for at least 12 - 24 hours after application according to humidity. Protect from heavy rain or extended exposure to water, oil and chemicals for 5 to 7 days. Although extremely durable, SAFE STEP® 500SF is not a permanent coating and will require occasional touching up, especially in heavily trafficked areas.

## Health & Safety

Refer to Safety Data Sheet before use.

**Safety Data Sheets** – Safety data sheets are available for download from our website [www.rocol.com](http://www.rocol.com) or may be obtained from your usual ROCOL® contact.

**Disclaimer:** The information in this publication is based on our experience and reports from customers. There are many factors outside our control or knowledge which may affect the use and performance of our products, for this reason it is given without responsibility.

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