SAFE® STEP

TECHNICAL DATA

SAFE STEP® 100

Heavy Pedestrian Grade Anti-Slip Coating

Description

Safe Step® 100 is a single pack, epoxy ester anti-slip surface coating for heavy pedestrian traffic. This durable safety coating is both easy and fast to apply and offers optimum adhesion to metal, concrete and wood surfaces.

Safe Step® 100 is both chemical resistant and fire retardant in the cured state. It resists gasoline, oil, acids, alkalies and aliphatic solvents.

Areas of application

- Pedestrian ramps in factories, shopping centres and other busy areas.
- Wet areas such as pool surrounds and behind hotel bars.
- Stairways and catwalks
- Nursing homes and schools
- Change rooms
- Equipment platforms
- Bakeries and food processing plants

Features

- Suitable for concrete, asphalt, timber and all metal surfaces
- Single pack mixture
- Excellent anti-slip properties
- Available in 3 colours – light grey, dark grey and safety yellow
- Long lasting both indoor and outdoors
- Easily applied by trowel or roller
- Touch up by brush

Last Modified November 2010

Technical data

Pack Size .....4 Litres
Colour .....Light Grey, Dark Grey and Safety Yellow
Chemical Type .....Single pack epoxy ester
Density (kg/l) 1.67
Curing Times
- Light traffic .....12 hours @ 20°C
- Heavy traffic .....72 hours @ 20°C
- Full Chemical Resistance.....7 days

Flash Point .....42°C
VOC Content (g/l).....340
Volume Solids 61%
Application Temperature Range .....10°C to 40°C
Co-efficient of Frictions ASTM F609
- Dry… 1.17
- Wet 1.00

Estimating Data

4 Ltr Safe Step® 100 = 4.8 m^2 (Roller or Trowel)

Application Directions

Surface Preparation

Concrete

Remove oil, grease, dirt, wax, etc. by dissolving in a emulsifiable water base cleaner/degreaser. Clean off with fresh water then apply an acidic etch such as **Epirez® Concrete Etch & Cleaner** (5 Ltr E993231). Again, rinse with fresh water and allow to dry completely before application.

Smooth or glazed surfaces should be roughened and porous surfaces should be primed with a suitable sealer such as **Epirez® Crack Repair Epoxy Sealer** (1.5 Ltr E901233) prior to application to provide better surface adhesion. New concrete should be cured for 28 days.

Metal and Galvanised Surfaces

Remove all paint, rust and mill scale preferably by grit blasting and prime with a suitable etch primer such as **Galmet® Keytite Etch Primer** (1 Ltr GKEG1L).

Timber

Timber should be primed with **Epirez® Crack Repair Epoxy Sealer** (1.5 Ltr E901233) or another suitable wood primer.

Application

Safe Step® 100 can be applied at surface temperatures between 10°C and 50°C. Application is not recommended when surface temperatures are above 50°C or below 10°C. Curing times will increase substantially at temperatures below 10°C.

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Thoroughly mix contents preferably with a mechanical mixer until material assumes a uniform colour and appearance. **Safe Step® 100** can be applied by roller or a trowel.

Roller

Roller applications provide the most effective non-slip characteristics with an irregular, ridged profile.

Use a hard faced roller. It is important that the rolled profile expose the maximum amount of non-slip aggregate. If aggregate is not properly exposed, the coating may become slippery when wet. Pour a "ribbon" of **Safe Step® 100** on the surface approximately 600mm across and 150mm wide. Roll in slow straight strokes with a moderate amount of pressure. Do not over-roll too many times or press down too heavily. Be careful that material does not build up too quickly along welds or joints (roll across, not along them). Material applied too thickly may not cure properly.

Trowel

Trowel applications provide excellent non-slip characteristics with a rough, textured surface.

Use a flexible bladed plasterer's finishing trowel approximately 100mm by 300mm. Use smooth edges, not notched. Pour a "ribbon" of **Safe Step® 100** on the surface approximately 600mm long and 150mm wide. Hold trowel at 45° angle to surface and spread with a sweeping motion. Reverse the angle of the trowel for the opposite stroke. Pull material towards one. To cover corners, etc. pull using straight strokes using the material on the trowel.

General

Higher temperatures will shorten drying times and conversely, lower temperatures and high humidity will lengthen drying time. Exterior applications must be protected from rain for at least 12 to 24 hours after application according to humidity. Protect from heavy or extended exposure to water, oil and chemicals for 5 to 7 days.

Cleaning

Tools and equipment may be cleaned before hardening commences by washing with White Spirits and Mineral Turpentine. Do not use for cleaning hands or mixing with product.

Maintenance

Maintain a clean surface to ensure that the non-slip safety performance of **Safe Step® 100** is maximised.

The following cleaning procedure is recommended:-

Clean with a neutral detergent cleaner mixed as directed with water. For stubborn oil and grease use a suitable surface degreaser. Scrub surface with a long handled, fibre-bristle brush or floor machine. Rinse with clean water and dry.

Foreign matter such as chewing gum should be removed with a scraper or putty knife and then the surface should be cleaned following the above procedure.

Although extremely durable, **Safe Step® 100** is not a permanent coating and will require an occasional touch up, especially in heavy traffic areas.

Storage and Shelf Life

Store in dry conditions between 10°C and 30°C, away from sources of heat and naked flames. Protect from frost. When stored in original sealed containers, the minimum shelf life is two years.

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Packaging

Safe Step® 100 is available in a 4 Litre pack.

Ordering Information:

	4 Litre Can
Light Grey	#E460004
Dark Grey	#E460005
Safety Yellow	#E460006

TDG Code: UN 1993

Note

The figures quoted for work time, setting time and strengths are not definitive. They are dependent on job site conditions and will vary accordingly. In all cases we endeavour to provide typical figures for use as a guide.

Health & Safety Information

A Material Safety Data Sheet is available from the ITW Polymers & Fluids Technical Department upon request or available on our website www.epirez.com.au .

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