Roxset®

FOOD & BEVERAGE PRODUCTION FLOORING

Roxset SE

HEAVY DUTY EPOXY MAINTENANCE COATING

Safety Data Sheet for Roxset SE

DESCRIPTION

Roxset SE is a two component, solvent free, low viscosity protective floor coating suitable for a variety of commercial and industrial applications. With the inclusion of Coloured Pigment Roxset SE floor coating provides a decorative surface finish with aesthetically pleasing appearance, high strength, abrasion resistance and serviceability to allow regular cleaning.

Roxset SE is free from any suspected or potential carcinogens or mutagens and will not taint foodstuffs. Roxset SE conforms to the requirements of the Department of Primary Industries for coatings and floorings used in food processing establishments such as abattoirs for export purpose.

Roxset SE is volatile organic compounds free (Nil V.O.C.) and is suitable for coating and protecting structures that are in contact with foodstuffs and potable water.

APPLICATIONS

- Food and Beverage Production Facilities
- Pharmaceutical Industries
- Hospital and Catering Kitchens
- Factory and Warehouse Floors
- Bakeries
- Forklift Ramps and Driveways

PROPERTIES

	Roxset SE (Standard Cure)
Mixing Ratio by Volume	: Part A - 2 Parts
	: Part B - 1 Part
Pot Life (1 litre mix)	30mins at 25°C
Cure Time	48 hours at 5°C
	36 hours at 15°C
	24 Hours at 25°C
	12 Hours at 35°C
Tack Free Time	8 Hours at 15°C
	6 Hours at 25°C
	3 Hours at 35°C

MIXING PROCEDURE

Measure out 2 volumes of Part "A" and 1 volume of Part "B". Place into a clean mixing vessel, such as plastic bucket and stir thoroughly. If aggregate is to be used, add gradually while mixing fine aggregate first, followed by slow addition of coarse aggregate. Thorough mixing is essential. Incomplete mixing will result in poor physical properties.

Phone: 61 (2) 9988 4822 | Fax: 61 (2) 9988 4833 | info@roxset.com.au | www.roxset.com.au | ABN 86 604 671 632

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CONCRETE SURFACE PREPARATION

Concrete should be free from grease and oil. If necessary, clean with industrial heavy duty degreaser. When clean, remove surface laitance. This is best done by mechanical abrasion such as scabbling, grit blasting or grinding. If this is not possible acid etching must be carried out.

Mix concentrated hydrochloric acid with equal volume of water and spread at the rate of 0.5 litre per square metre of concrete surface. Allow to react for about 10 minutes and wash the area thoroughly and scrub with a stiff bristled broom to remove loose sand. Allow to dry for 24 hours.
For maximum adhesion concrete should be surface dry.

METAL SURFACE PREPARATION

Metals should be grit blasted to AS CK 9.4 - 1964 Class 3 finish. If this is not possible, mechanically abrade the surface to a clean, bright metal surface. Once this abrasion is complete, degrease the surface by flooding with an industrial grade degreaser. Wire brushing is not entirely satisfactory and gives minimal adhesion only.

PAINTED SURFACE PREPARATION

Concrete:

The surface may be either flame-cleaned, or mechanically treated with a scutching tool.
To remove all traces of paint. Complete the preparation by diamond grinding or scabbling.

Metals:

Steps should be taken to remove all paint and/or galvanizing. Good quality paint stripper should be used, followed by grit blasting or grinding to a bright metal finish.

APPLICATION

It is recommended that Roxset LVS - Low Viscosity Sealer is used as a primer on particularly porous surfaces before the application of Roxset RC. Roxset LVS can be applied either by roller, brush or spray equipment at a rate of 8-10m^2 per litre. A single coat application of Roxset LVS is generally all that is required and thinning is not recommended. Recoat or overcoat approximately between 8 – 24 hours after application of Roxset LVS.

Roxset RC can be thinned up to 10% with Roxset Thinners to promote easy working. Add a maximum of 10% Roxset Thinners on the first coat, 5% on the second coat and so on. However, care must be taken to ensure that all thinners have evaporated before applying subsequent coats.

If more than 24 hours elapses between coats, it is necessary to thoroughly abrade the coated surface to a uniform dull finish using 60 grit abrasive paper.

NON SLIP SURFACES

If you wish to have a non slip surface, broadcast epoxy quality sand, glass beads, carborundum or silicone oxide over the freshly applied surface. This can either be left as is for an aggressive non slip surface, or can be re-coated with Roxset RC to create a less aggressive non slip surface. Please contact our technical department for further information.

HEALTH AND SAFETY

Use disposable rubber gloves to protect hands and maintain proper industrial hygiene. Avoid prolonged contact with skin, wash affected areas with soap and warm water. For further information regarding health and safety please refer to Bulletin No. 100 and the Material

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CURED PROPERTIES

Maximum Operating Temperature	100°C
Compressive Strength - ASTM 695	70MPa (MC2 Only)
Bond Strength Concrete - ASTM 454	>3MPa (Concrete Failure)
Tensile Bond Strength Steel - ASTM 1002	13MPa
Modulus of Elasticity - ASTM 695	2.4GPa
Tensile Strength	30MPa
Hardness - Barcol 935	90 at 25°C
Dielectric Strength 50HZ, 25°C	17Kv per mm

CHEMICAL RESISTANCE

The following chemical resistance is based on tests conducted under continuous immersion conditions. In practice Roxset SE based floor and wall surfaces are cleaned regularly, exposure to chemicals is limited to a few hours at a time and the severity of attack is proportional to the time exposed.

The data given below apply to continuous exposure conditions.

These Chemicals have no effect on Roxset SE:

- Distilled water at 60°C
- Petrol
- Power kerosene
- Diesel fuel
- Crude oil
- Toluene
- MIBK
- Carbon
- Tetrachloride
- Styrene monomer
- Glycerine
- Chromic acid 1%
- Hydrochloric acid at all concentrations to 31%,
- Sulphuric acid at all concentrations to 70%
- Acetic acid 5%
- Tartaric acid 5%
- Citric acid 5%
- Linseed fatty acid
- Sodium hydroxide all concentrations
- Ammonium hydroxide all concentrations to 15%
- Liquid detergent, sodium carbonate 10%
- Sodium bisulphate10%
- Methylated spirits and coca cola.

TECHNICAL SERVICE

The methods and systems outlined in this bulletin are the best available at the present time, however continual research and development is being carried out and could result in change without prior notice.

CLEAN UP

To keep mixing implements and working tools clean use Roxset Thinners. Use disposable rubber gloves to protect hands and maintain proper industrial hygiene. For further details refer to Bulletin No. 100.

AVAILABILITY

Roxset SE is available ex stock in 4.5 litre and 30 litre kits. In each kit Part "A" and Part "B" are measured in the correct mixing ratio for immediate use. Roxset SE can be coloured using Roxset Pigment Pastes which can be manufactured in all colours represented in the Australian Standard 2700 "Colour Standard for General Purposes".

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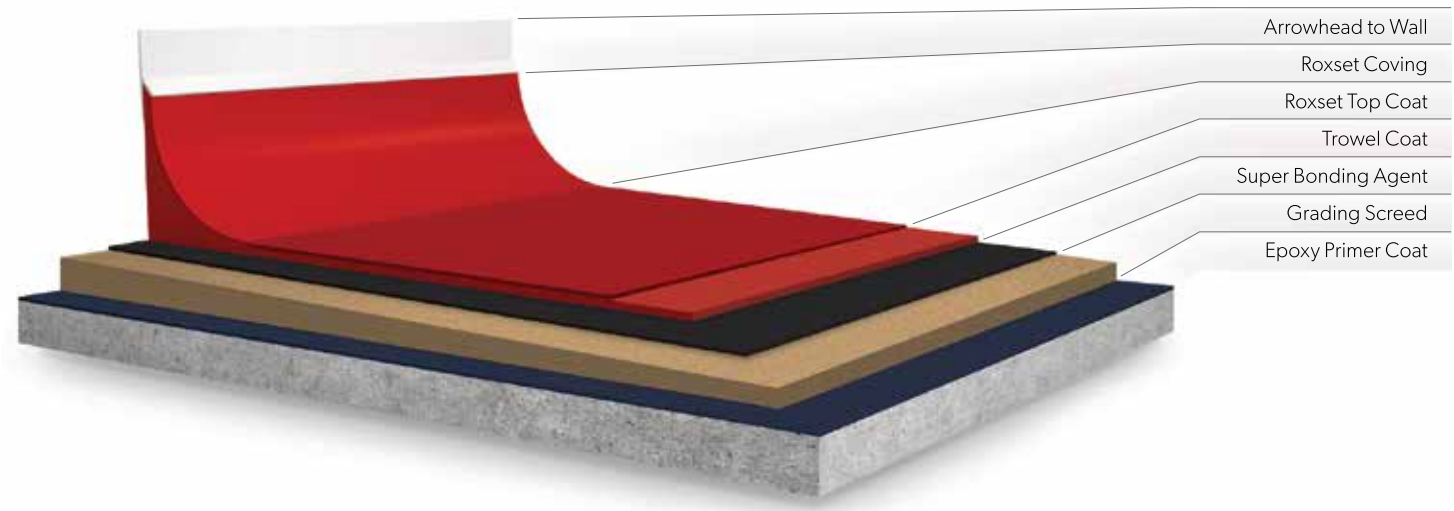
HEALTH & SAFETY FLOORING

Custom Production Floor Coatings & Solutions

Roxset provides world class food safe floor coatings to the Australian food and beverage industry

Roxset was founded over 30 years ago in response to technical floor coating issues which remained unresolved in relation to compliance practices at that time for major Food and Beverage manufacturers. Roxset were pioneers in developing an innovated solution to address the key issues of employee safety, audit requirements for both local and global needs and providing a 24/7 service to geographically remote areas.



Flooring Colour Guide – A lasting solution

Our composite flooring system ensures you get the best performance from your new floor

Unlike many other resinous floors that have been coloured with oxides, the Roxset SE product range is coloured with a colour-flow dispersion to ensure a 'colourfast' floor throughout its life. We have a range of in-house colours to choose from, or we can also custom match any corporate colour desired. See our flooring colour guide below.

WHITE | OATMEAL | SAND MOTIF | KOALA GREY | BROWN | CUSTARD | SAFETY YELLOW | APRICOT | INTERNATIONAL ORANGE

TERRACOTTA | BRIGHT RED | RED BOX | RED OXIDE | SAFETY GREEN | HOME BUSH GREEN | GREEN | BLUE BELL | PARADISE BLUE

PERIWINKLE | HOME BUSH BLUE | LIGHT GREY | MID GREY | DARK GREY | CHARCOAL | BLACK

Please Note; These colours are a digital/print representation of our standart Roxset RC colours. The finished product may be different to these colours. For accurate colour samples please contact our Technical Department for sample Roxset RC colour chips.

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