RSL RESIN SURFACES LIMITED

A SHERWIN-WILLIAMS Company

REF : POST 2016 06

Resupol

DESCRIPTION

Resupol is a water based emulsion developed for addition to thin section cementitious screeds used in levelling and smoothing heavy duty industrial floors, and as an underlayment for a wide range of flooring requirements.

The use of Resupol polymer screeds and toppings improves the resistance to water and water vapour. When left as a wearing surface Resupol toppings have a lower tendency to dusting than conventional cement screeds and toppings.

ADVANTAGES

- Can be built up to achieve a range of thicknesses and finishes in applications
- Low water : cement ratio
- Ease of application, with good working time and application properties.
- Can be used both internally and externally
- Can be used as a floor finish

RECOMMENDED USES

- As a base for RSL floor systems
- Factory floors
- Warehouse's
- Food & beverage industry

PRODUCT INFORMATION

System thickness	Density	Pack sizes	Pack make up	Shelf life	Storage
8mm To 80mm	960 -1020 kg/m^2	25 Litre, & 200 Litre 1000 Litre	1 x Drum of liquid	Liquid 12 months (unopened)	Clean dry conditions 10-20 C Protect from fost

DRYING TIMES & COVERAGE RATES at 20˚C

Coverage rate	Pot life	Recoat time	Light traffic	Full traffic	Full chemical cure
Mix dependant	30 minutes Mix dependant	48 hours in good drying conditions	Overnight	3 days	7 days

CPD CERTIFIED Construction CPD Certification Service

nbsPlus

riba product selector

Campden BRI food and drink innovation

BCF BRITISH COATINGS FEDERATION

MADE IN THE UK

FeRFA Resin Flooring Association

Specification

Product : Resupol

Finish : smooth or textured

Thickness : 8mm to 80mm

Colour : White

Products required for this system

Prime : Resupol liquid

System : Resupol

Surface Seal : As Specified

Preparation

The substrate should be sound and continuous, movement joints should be carried through the screed system, day work joints should be soundly bonded and sealed. The substrate should be mechanically strong enough to support the expected loads and should have suitable mechanical properties (compressive strength not less than 25 N mm and tensile not less than 1 N mm).
The surface should be mechanically prepared to provide a clean sound and dry surface, free from dust, dirt, oils and greases, surface laitance or other contamination. If the presence of waterproofing agents is suspected in the concrete then a water spot test should be undertaken.

Priming

Priming can be achieved in several ways depending on site conditions and requirements. High bond strengths can be achieved by use of **Resupol**. Alternatively a slurry coat can be used.
Normally this will be one coat of **Resupol** and cement mixed one to one by volume, applied at a rate of approximately 3 m per litre of latex. (typical potlife for this material is 1-1.5 hrs.) Care should be taken to ensure that the primer is laid off smoothly and evenly and worked into the surface, avoiding leaving pools of material on the floor. Equipment used should be cleaned with clean cold water periodically, and at the end of the application.

Only prime the areas to be screeded during that working period. Extremely porous surfaces require an additional sealer coat of one part **Resupol** to four parts water applied prior to the application of the primer.

Application

It is important to ensure that the materials used are of suitable quality and consistency. Sharp sand, should be clean well washed and selected on the basis of mix design.
Portland cement should be fresh, free from lumps etc. Aggregates should be dust free and graded such that they are appropriate to the thickness of materials being laid.
Mix design is dependent on thickness and intended use, a typical mix for:
A levelling screed (parts by wt)

OPC	1
sands	3.5
Resupol	0.2
water as required	

A heavy duty topping to be used as a wearing course

OPC	1
sands	1.75
washed granite	1.75
Resupol	0.2
water as required.	

This equates to 10 litres of **Resupol** per 50 kg cement. Improved strength can be achieved by increasing the **Resupol** content to 15 litres per 50 kg, and offsetting the volume of water used.

This product contains a defoamer and is formulated for this to be effective in production and use of the product, however over-mixing will result in air entrapment and bubbles forming in the bulk of the laid screed.

Mix to a smooth even consistency, free from lumps. When mixed the screed will have a working life of approximately 30 minutes, it is therefore important to ensure that mixing capability is consistent with the laying process.

Lay the Screed or topping direct into the wet primer, laying off with a rake etc, and compacting with a screed bar prior to finishing with steel float. Where large areas are involved, it is essential that this is done as the work proceeds, and that the application is planned to enable working in bays. Ideally these bays should align with the movement or other existing joints

USAGE

Usage is dependant on the aggregates selected. Based on the formulation above being applied to a smooth sealed surface, for an area of 100 m^2 at 10 mm thickness 2000 kg of mix requiring 85 kg of **Resupol**.
Resupol based floors must be allowed to dry properly before laying sealed surface coatings or coverings.

Note: It is normally considered good practice that the maximum aggregate size should not exceed one third of the minimum thickness of the screed. Due to the wide variety of materials and sources available, contractors are strongly advised to ensure that all materials to be used are of the appropriate quality, and where necessary trials are undertaken to ensure that the required level of performance is achievable with specific materials.

Technical Information

The following figures are obtained from laboratory tests and our experience with this product .

Slip Resistance	Dry > 36 product & finish dependent
Method BS7976 pt1-3 2002	Wet Please consult RSL

The slip resistance of a floor surface can vary as a result of the installation process, conditions at the time of application and subsequent traffic. Inappropriate cleaning or maintenance can adversely affect the performance. For further advice on potential wet areas please consult RSL.

Abrasion Resistance	n/a
Method BS8204 /ASTM D4060	
Temperature Resistance	Tolerant of sustained temperatures of up to 80 ^{0}C
Chemical Resistance	Consult RSL for Further details
Adhesion Strength	> 1.5 n/mm when primed
VOC	< 1 g/l

CE

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14

BSEN 13813 B 1.9 - AR 0.5 - IR>4
Resin coating/screed for use inside buildings as per RSL data sheet

Wear resistance:	AR 0.5
Bond strength:	B 1.9
Impact resistance:	IR > 4

CE test information is mix specific.

Maintenance and Cleaning

RSL recommend that **Resupol** should be cleaned with a regular industrial cleaning regime with a floor scrubber utilising **R.S. Industrial Floor Cleaner** or similar with dirty water being removed. Isolated localised cleaning can be carried out using **R.S. Tyre Mark Remover, R.S. Fats & Grease Remover** & **R.S. Oil Remover**.
All surfaces should be thoroughly rinsed with clean water after the use of chemical cleaners.
Please refer to the RSL Guide to Cleaning of Resin Floors

Health and Safety

Resupol is formulated from materials designed to achieve the highest level of performance as safely as possible. However, specific components require proper handling and suitable equipment, this information is given in the relevant safety data sheets. In all cases, spillages or skin contamination should be cleaned as soon as practically possible, by dry wiping of the affected area, and thorough washing with soap and water.

The information given in this data sheet is derived from tests and experience with the products and is believed to be reliable. The information is offered without guarantee to enable purchasers to determine for themselves the suitability of the product for their particular application. Any specification or advice given by Resin Surfaces Limited or its agents is based on the information supplied by the purchaser. Resin Surfaces Limited cannot be held accountable for errors or omissions as a result of that information being incorrect or incomplete. No undertakings can be given against infringement of patents. Some materials are derived from natural sources. As such some variation may occur. Site conditions may also contribute to variation in finish and colour.

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