



R.S. Rapidprime

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DESCRIPTION

R.S. Rapidprime is a rapid cure two-pack solvent-free epoxy resin priming coat, designed to allow very fast overlaying with resin based systems, and is effective at lower temperatures. R.S. Rapidprime is designed as a high build primer coating to be laid by squeegee or trowel to seal and prime in one application. R.S. Rapidprime is not suitable for use at temperatures greater than 25°C.

ADVANTAGES

- Can be overlaid in 3-4 hours
- Versatile for varied applications
- Solvent-free
- Low odour
- Excellent adhesion
- Ease of application

RECOMMENDED USES

- Where a faster turnaround is required
- As a primer for all Sherwin-Williams flooring products

PRODUCT INFORMATION

System Thickness (Recommended)	200-250 microns WFT 180-225 microns DFT *The suggested thickness range is calculated based on average volume solid as a general recommendation for the specified condition and for each application may vary.
Solids Content by Weight	90%
Solids Content by Volume	90%
Pack Sizes	3 kg & 7 kg
Pack Make Up	1 x Base 1 x Hardener
Shelf Life	36 months (Base & Hardener)
Storage	Keep out of direct sunlight. Store in a dry place, between 15°C and 25°C.

APPLICATION INFORMATION at 20°C

Coverage Rate (Theoretical)	3 kg will cover 13m ² at 200 microns WFT * Coverage rate is calculated based on a sealed and smooth surface and may vary based on the substrate roughness and other conditions.
Pot Life	6-8 minutes from mixing
Recoating Intervals	3-4 hours or once surface has lost tackiness
Light Traffic	3-4 hours
Full Traffic	24 hours
Full Chemical Cure	7 days



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Specification

Product : R.S. Rapidprime

Finish : Smooth gloss

Recommended thickness range : 200-250 microns WFT per coat

Colour : Clear

Products required for this system

Primer : R.S. Rapidprime

System : As per specification

Surface Seal : As per specification

Preparation

New Concrete Floors: New concrete must be clean, sound, dry, fully cured and surface laitance removed by vacuum enclosed shot blasting or mechanical grinding, a minimum strength of 25N/mm² is required.

Existing Concrete Floors: Remove all dirt, oil, grease, old paint or any other surface contaminants by vacuum enclosed shot blasting, scarifying or mechanical grinding. Fats, oils or greases must be removed by mechanical means and detergent washing and make sure all residue of detergent is washed and removed by rinsing with clean water. Local repairs should be carried out with **Resupatch** or **Resuscreed 45**.

Existing Floors (previously coated)

All previous coatings and loose floor paints must be removed by mechanical preparation as described in the above section and primed as specified. If the old resin flooring cannot be removed, then please consult with our technical team for advice on intercoat adhesion and suitability, as it may not be compatible with existing floor coating.

R.S. Rapidprime can also be applied to existing coatings and to other cementitious screeds which should be clean and sound with an appropriate mechanical key for adhesion.

Priming

R.S. Rapidprime should only be applied where the Relative Humidity of a substrate is less than 75% ERH.

Where the Relative Humidity of a substrate exceeds 75% ERH **R.S. Dampshield FH** should be specified and selected on the basis of hygrometer readings in accordance with BS 8203.

The number of coats to be applied is chosen in accordance with the following table.

ERH%	Required Coating Thickness
75-85	1 coat of R.S.DAMPShield FH at 200 microns per coat
85-92	2 coats of R.S.DAMPShield FH at 200 microns per coat
92-97	3 coats of R.S.DAMPShield FH at 200 microns per coat

For further information please refer to recommended individual product data sheets.

Application

The ambient temperatures of the areas should not be allowed to fall below 15°C throughout the application and the curing period, as this could have an adverse effect on the appearance and colour of the system. Surface temperature must be above 10°C. Where possible it is recommended that the application area is heated to a minimum temperature of 15°C ideally to allow the ambient and substrate temperature to stabilise prior to installation.

Pre-mix the base component to a uniform consistency then mix the entire contents of the base with the hardener. If a separate mixing bucket is being used for mixing ensuring all contents of both components are removed from the buckets supplied. Mix using a slow speed electric mixer for approximately one to two minutes until the two components have fully combined. The mixed unit should be applied immediately by squeegee, roller or brush with a consistent procedure. Floor areas should be cross-rolled to ensure even application and to minimise roller marks. **Product should be applied immediately due to short pot life, any delay will result in loss of working time.**

Coverage rates may vary depending on profile and porosity of the substrate.

Important : **R.S. Rapidprime** is designed for use as a rapid primer in lower temperature conditions. If **R.S. Rapidprime** is not used within the pot life remaining material will rapidly generate considerable heat and may generate fumes through the reaction process. Carefully place the container in a well ventilated area, taking care to prevent spillage or contact with the material or container. Nothing must be added to the container until the container and contents have cooled naturally. Refer to MSDS for more information.

Category Guide

FeRFA Category : 2

Technical Information

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

Bond Strength	3.4 N/mm ² (Substrate failure)
Method BS EN 13892-8:2003	
Temperature Resistance	Tolerant of temperatures up to 60°C
VOC	107 g/l calculated per full mixed unit
Life Expectancy	Dependant on floor system.

Maintenance and Cleaning

Sherwin-Williams recommend that **R.S. Rapidprime** 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, Oils & 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 Sherwin-Williams Guide to Cleaning of Resin Floors

Health and Safety

R.S. Rapidprime 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 Sherwin-Williams or its agents is based on the information supplied by the purchaser. Sherwin-Williams 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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