



## DESCRIPTION

Resutile is a high performance, two pack polyurethane floor coating which is designed to provide excellent chemical resistance and light fastness. It is a hard wearing and tough but flexible coating with very good resistance to impact, abrasion and high temperature. Resutile is regularly used in the aviation industry due to its excellent resistance to Skydrol.

## ADVANTAGES

- Excellent chemical resistance
- UV stable
- Good abrasion and impact resistance
- Hygienic and easy to clean
- Excellent resistance to thermal shock
- Has a degree of flexibility

## RECOMMENDED USES

- Aircraft hangars
- Laboratories
- Prisons and police cells
- Chemical plants
- Pharmaceutical areas
- Medical and Healthcare
- Anti-slip finishes can be created using a scatter of aggregate

## PRODUCT INFORMATION

<b>System Thickness (Recommended)</b>	100-150 microns WFT 56-84 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 it may vary.
<b>Solids Content by Weight</b>	74% It may vary slightly for different colours
<b>Solids Content by Volume</b>	56% It may vary slightly for different colours
<b>Pack Sizes</b>	5 litres
<b>Pack Make Up</b>	1 x Base 1 x Hardener
<b>Shelf Life</b>	12 months (Base & Hardener)
<b>Storage</b>	Keep out of direct sunlight. Store in a dry place, between 15°C- 30°C.

## APPLICATION INFORMATION at 20°C

<b>Coverage Rate (Theoretical)</b>	5 litres will cover 50m <sup>2</sup> @ 100 microns wet thickness. * Coverage rate is calculated based on a sealed and smooth surface and may vary based on the substrate roughness and other conditions.
<b>Pot Life</b>	40 minutes
<b>Recoating Intervals</b>	6 hours or once surface has lost tackiness
<b>Light Traffic</b>	24 hours
<b>Full Traffic</b>	72 hours
<b>Full Chemical Cure</b>	7 days



## Specification

**Product :** Resutile

**Finish :** Gloss

**Recommended thickness range :** 100-150 µm WFT per coat

**Colour :** Available in a range of colours, please consult Sherwin-Williams

## Products required for this system

**Primer :** Resuseal WB Clear or R.S. Dampshield on damp substrates where required

**System :** 1 or 2 Coats of Resutile  
(Multiple coats will be required to achieve full coverage on low opacity colours such as bright yellows and reds)

## Preparation

**New Concrete Floors:** New concrete must be clean, sound, dry and fully cured and surface laitance removed by vacuum enclosed shot blasting or mechanical grinding, a minimum strength of 25N/mm<sup>2</sup> is required.

**Timber Floors :** Must be clean, sound, dry . Old clear varnish/topcoat must be removed/sanded prior to application, as it may affect the inter- coat adhesion with **Resutile**.

**Existing Concrete Floors:** Remove all dirt, oil, grease, old paints or any or 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. Local repairs should be carried out using **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 advise on intercoat adhesion and suitability, as it may not be compatible with existing floor coating.

Where **Resutile** is applied to masonry/concrete surfaces, care must be taken to ensure that surface preparation is thorough but does not disfigure the surface.

Where surfaces are found to be porous a primer coat may be required to achieve a uniform sealed surface.

## Priming

**Resutile** may be applied direct to concrete or as a seal coat or top coat to a resin floor system specified in our datasheets where a primer is not required. When applied direct to porous substrates the surface may require priming. Dry surfaces may be primed with **Resuseal WB Clear** or **Resuprime NT**.

Where the Relative Humidity of the substrate exceeds 75% **R.S. Dampshield** 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	1coat of R.S.DAMP SHIELD at 200 microns per coat
85-92	2coats of R.S.DAMP SHIELD at 200 microns per coat
92-97	3coats of R.S.DAMP SHIELD at 200 microns per coat

## Application

The ambient temperatures of the area should not be allowed to fall below 10°C throughout application and curing. Surface temperature must be above 5°C.

**Mixing:** Pre-mix the base component to a uniform consistency then add the entire contents of the hardener to the base and mix by using a slow speed hand held powered mixer and mixing paddle for approximately two to three minutes to achieve consistent mixture. Note: Do not use a separate mixing bucket as it may affect the mixing ratio.

Apply the whole mixed paint by using spreading rake, roller and brush to achieve the maximum coverage within the specified pot life time frame.

### Do not add solvent to this product.

Slip resistance can be improved by lightly broadcasting anti slip aggregates on the first coat (after primer) whilst still wet and back rolling, at a rate of 50/100 g/m<sup>2</sup>. When cured apply the second **Resutile** coat to secure the aggregates. Alternatively one pack of **R.S. Beadgrip** can be added to each pack of **Resutile** to achieve a fine non-slip texture.

## Category Guide

FeRFA Category : 1 and 2

## Technical Information

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

**Slip Resistance** Dry > 60  
Method BS7976 pt1-3 2002 Wet (Please consult Sherwin-Williams)

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 Sherwin-Williams

**Abrasion Resistance** Average loss per 1000 cycles  
Method BS8204 /ASTM D4060 79 micrograms

**Temperature Resistance** Tolerant of temperatures of up to 150°C

**Chemical Resistance** Excellent chemical Resistance  
Consult Sherwin-Williams on specific materials

**Water Vapour Permeation** Average permeability value  
ASTM E96-80 2.38 x 10-3g/mm/h/m<sup>2</sup>/mm Hg

**Linear Coefficient of Thermal Expansion 15-30°C** 7.5 x 10-5°C  
(Extension rod dilatometry method)

**Adhesion** 233 psi  
BS3900 Part E 10

**Impact Resistance** Average result  
BS 3900 Part E 7 154 micrometres

**VOC** 440 g/l calculated per full mixed unit

**Life Expectancy** Up to 4 years depending on applied thickness and subject to traffic according to FeRFA classification. Sherwin-Williams terms and conditions will apply.

## Maintenance and Cleaning

Sherwin-Williams recommend that **Resutile** should be cleaned with a regular industrial cleaning regime after specified full chemical cure time frame 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** and **R.S. Oil Remover**. All surfaces should be thoroughly rinsed with clean water after the use of chemical cleaners.

Do not splash, clean, wash or treat the resin flooring with water or any other chemicals until full cure achieved, as it may affect the surface quality and performance.

**Please refer to the Sherwin-Williams Guide to Cleaning of Resin Floors**

## Health and Safety

**Resutile** 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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