



05/2023 Issue 6 – REF: TIFL

## PRODUCT DESCRIPTION

Resutile™ ST is high performance, two pack polyurethane floor and wall coating which has good chemical resistance and colour stability.

Used as a topcoat to existing resin systems.

## ADVANTAGES

- Chemical resistant
- UV stable
- Abrasion and impact resistant
- Skydrol & Hyjet resistant
- Easy to clean
- Resistant to thermal shock

## RECOMMENDED USE

A wide range of industrial applications such as:

- Aircraft hangars
- Laboratories
- Automotive workshops
- Commercial buildings
- Chemical plants
- Medical and healthcare

## PRODUCT DATA

**Volume Solids:** ~ 74% May vary with shade and finish.

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

**Colours:** 12 standard RAL shades, others available on request.

**Finish:** Gloss and Matt

**Flash Point:** N/A

**Cleanser/Thinner:** RS Poly Solvent for thinning and cleaning  
Thinning will affect VOC compliance and film thicknesses

**Pack Size:** 6.60 kg Colour  
5.42 kg Clear

**Pack Weights:** 5 kg base to 1.6 kg hardener for Colours  
3.55 kg base to 1.87 kg hardener for Clear

**Mixing Ratio:**

3.1 parts base to 1 part hardener by weight only (colours)  
1.9 parts base to 1 part hardener by weight only (clear)

**Mixed Density:** ~1.28 g/cm<sup>3</sup> Colours

**Shelf Life:** 24 months (base) and 12 months (hardener)  
in unopened containers

**Recommended Application Methods:** Brush, roller or squeegee.

**Storage:** Keep out of direct sunlight.  
Store in a dry place, between 5°C to 30°C.

### Typical Properties at 20°C

#### Cure Times

Minimum recoating intervals: 6 to 8 hours or once surface has lost tackiness

Light Traffic: 24 hours

Full Traffic: 72 hours

Full Chemical Cure: 7 days

**Pot Life:** 30-40 minutes from mixing,

Solvent based coatings may not show a visible end of pot life, therefore, it is essential to use all mixed paint within the specified time frame.

#### Typical Consumption:

0.12kg/m<sup>2</sup> WFT

The coverage rate will vary depending on the texture and porosity of the substrate, site conditions, film thickness and method of application.

## SURFACE PREPARATION

Resutile™ ST is used as a topcoat on new or existing resin flooring systems, substrate should be lightly abraded/sanded prior to application. and

Ensure surfaces to be coated are clean, dry and free from all surface contamination such as oil, grease and dirt to achieve satisfactory adhesion.



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## APPLICATION CONDITIONS

Materials should be pre-conditioned at 15°C to 25°C prior to use. Mix the entire contents of the base component with the hardener component using a low speed electric mixer (300 to 400 rpm) for 1 to 2 minutes until homogeneous.

Thinning is not normally recommended but where required, RS Poly Solvent must be added after the hardener has been incorporated and added slowly, up to a maximum of 5% by weight only.

The mixed unit should be applied immediately by roller, brush or squeegee with a consistent procedure. Floor areas should be cross rolled to ensure even application and to minimise roller marks.

## RECOMMENDED SYSTEMS

Compatible with a wide range of Sherwin-Williams high performance flooring systems.

## MIXING AND APPLICATION

Mix the entire contents of the base with the hardener. If a separate mixing bucket is being used mix thoroughly ensuring all contents of both components are removed from the buckets supplied. Mix using a high-speed electric mixer (for colours) or a slow-speed electric mixer (for clear) for approximately three to four minutes until the two components are fully combined.

The mixed unit should be applied immediately by roller, brush or squeegee with a consistent procedure. Floor areas should be cross rolled to ensure even application and to minimise roller marks. It is important to maintain a wet edge with this product to minimise the risk of roller marks in the cured finish.

## TECHNICAL INFORMATION

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

**Category Guide:** FeRFA Type 1 and 2

**Temperature Resistance:** Tolerant of temperatures up to 100°C

**Abrasion Resistance:** 67 mg loss per 1000 cycles  
(BS 8204/ASTM D4060)

**Impact Resistance:** Class I  
(BS EN 1504-2:2004)

**Fire Classification:** Bfl-s1  
(BS EN 13502-1:2018)

**Chemical Resistance:** Good. Refer to SW HPF chemical resistance  
(EN 13529:2003) guide for further information

## WARRANTY

Any person or company using the product without first making further enquiries as to the suitability of the product for the intended purpose does so at their own risk, and Sherwin-Williams can accept no liability for the performance of the product, or for any loss or damage arising out of such use.

The information detailed in this datasheet is liable to modification from time to time in the light of experience and normal product development, and before using, customers are advised to check with Sherwin-Williams, quoting the reference number, to ensure that they possess the latest issue.

## DISCLAIMER

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.

## HEALTH AND SAFETY

Consult Safety Datasheet for information on safe storage and handling of this product.

Sherwin-Williams UK Limited, Protective & Marine Division  
Tower Works, Kestor Street, Bolton, BL2 2AL, United Kingdom.

T: +44 (0)1204 521771 F: +44 (0)1204 382115

W: <https://industrial.sherwin-williams.com/emea/gb/en/resin-flooring.html>

Registered in England Reg. No. 2968830 Reg. Office: Station Lane, Witney, Oxfordshire, United Kingdom, OX28 4XR.



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Sherwin Williams Protective & Marine Coatings  
Tower Works, Kestor Street, Bolton, BL2 2AL, United Kingdom  
Tel: +44 (0) 1204 521771 F: +44 (0) 1204 382115

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1812-CPR-2063  
EN 1504-2

Surface protection products - Coatings  
Principle intended uses - Physical resistance

Reaction to fire : B<sub>fl</sub>-s1  
Abrasion resistance : Weight loss < 3000 mg  
Capillary absorption and permeability to water : w < 0.1 kg/m<sup>2</sup>.h<sup>0.5</sup>  
Impact resistance : Class I (> 4 Nm)  
Adhesion strength : ≥ 2.0 N/mm<sup>2</sup> (1.5 N/mm<sup>2</sup>)