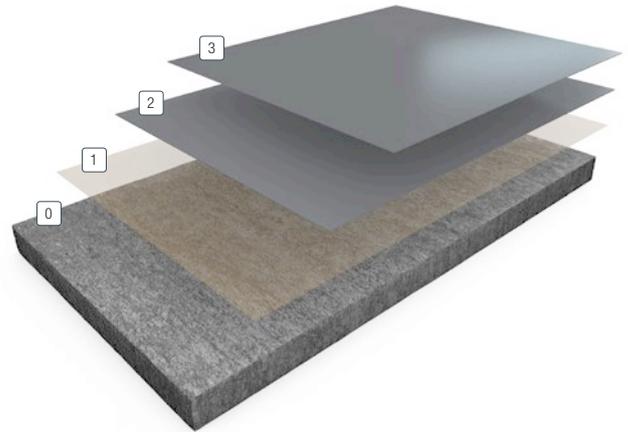


RESUFLOTM TOPCOAT HIGH BUILD EPOXY FLOORING COATING SYSTEM

Resufloor Topcoat is a high build epoxy resin system for application as a heavy duty floor coating at a thickness of around 500 microns. The finish will provide a smooth gloss coloured surface which is suitable for all areas of industry where a hard wearing and chemically resistant floor coating is required. Applied by roller, paint brush and squeegee the system is low odour producing a tough, seamless and hygienic floor finish. Textured finishes can be created with Resufloor Topcoat by incorporating an aggregate scatter into the first coat of Resufloor HB. This can be a light scatter or a full blind of aggregate as required.



Traffic	Cure to service (hrs)		
	10°C	20°C	30°C
Light	24-36	12-16	8-12
Designed	72-96	48-72	24-48
Full cure	8 days	≤ 7 days	5 days

- 0 **Substrate:**
- 1 **Primer: (optional)**
Resufloor WB Clear or Resuprime ST
- 2 **Basecoat:**
Resufloor HB
- 3 **Topcoat:**
Resufloor HB

BENEFITS

- High-build finish
- Solvent-free
- Hygienic and easily cleaned
- Good colour stability
- Excellent slip resistance with the inclusion of selected aggregates
- High gloss finish
- Available in a wide range of colours

SCOPE OF USE

- Food processing and beverage areas
- Chemical plant rooms
- Engineering workshops
- Automotive and aviation areas
- Factory units
- Warehouses
- Excellent for all demarcation and walkways

TYPICAL PHYSICAL PROPERTIES

Abrasion resistance	ASTM D4060-14	134.7 mg Loss/1000 Cycles
Compressive strength	BS EN ISO 604:2003	9.6 MPa
Tensile strength	BS EN ISO 527-2:2012	7.5 MPa
Flexural strength	BS EN ISO 178:2010+A1:2013	3.2 N/mm ²
Bond strength	BS EN 13892-8:2002	>3 N/mm ² (substrate failure)
Impact resistance	BS EN 1504-2:2004	Class II
Temperature resistance	Tolerant of temperatures up to 45°C	
Chemical resistance	Good	
Reaction to fire	EN13501-1	B _{FL} – s1
UV stable	No	
FerFa class	Class 3	
System thickness	0.5 mm	

SYSTEM COMPOSITION

VOC EC Solvent Emissions Directive

Component	Product	Application	VOC	Theoretical consumption
Primer (optional)	Resufloor WB Clear (optional)	Squeegee/roller	<1 g/L	0.16 kg/m ²
Basecoat	Resufloor HB	Squeegee/roller	186 g/L	0.25 kg/m ²
Topcoat	Resufloor HB	Squeegee/roller	186 g/L	0.25 kg/m ²

NB: If a high build primer is required use Resuprime ST applied at around 0.25 kg/m².

APPLICATION GUIDANCE

IMPORTANT INSTALLATION NOTE

Sherwin-Williams materials shall only be installed by approved contractors. The following information is to be used as a guideline for the installation of the system in conjunction with the product data sheets used for the system. Contact Sherwin-Williams Technical Service Department for assistance prior to application. Email: technicale@sherwin.com or Tel: +44 (0)1204 556457.

SUBSTRATE REQUIREMENTS AND SURFACE PREPARATION GENERAL CONSIDERATIONS

Sherwin-Williams flooring systems can be applied to a variety of substrates. Proper surface preparation is required, specific of the substrate type. Concrete is the most common substrate and this document states surface preparation guidance for this specific substrate. Other types of substrate can be covered too. Please contact Sherwin-Williams Technical Service Department prior to starting the project to obtain guidance on surface preparation for specific substrate or condition.

CONCRETE - SUBSTRATE REQUIREMENTS

To achieve the best performance from Resufloor Topcoat substrates must be clean, sound, dry and free of surface laitance with a minimum strength of 25 N/mm².

Ideally substrates should be free from rising damp and water pressure and it is good practice to take a moisture content reading of a concrete substrate, particularly for any new slabs.

If substrates have moisture levels above 75% ERH as per BS8204, or if no damp proof membrane is present then Resuprime MVT can function as a surface applied damp proof membrane as the primer as advised in with the product data sheet. The number of coats of Resuprime MVT will be dependent on the moisture content.

CONCRETE - SURFACE PREPARATION

Concrete surfaces should be prepared by planetary grinding or mechanical abrasion as required to achieve a surface texture which will function as a mechanical key to maximise adhesion of the resin system.

Thoroughly vacuum the surface and any joints to remove all loose dust and debris. Ensure that all preparation is carried out to the edges of slabs, walls etc. to ensure full bonding of the system to a sound surface. Any debris should be recovered from the floor surface and joints etc.

Significant mechanical damage, pitting and cracks may need to be addressed and repaired prior to the application of the primer; these should be identified by survey.

For recommendations, consult Sherwin-Williams Technical Service Department.

TEMPERATURE

Throughout the application process, substrate temperature ideally should be 10°C–25°C and a relative humidity <90% ERH, with a minimum air temperature of 15°C and no condensation. Do not pre-warm this product as working times will be substantially reduced if materials are warm. Substrate temperature must be at least 3°C above the dew point. The material should not be applied in direct sunlight, if possible.

APPLICATION GUIDANCE

SYSTEM INSTALLATION - IMPORTANT: IT IS CRITICAL TO ADHERE TO THE MIXING INSTRUCTIONS FOR FULL SYSTEM CURE AND PERFORMANCE

PRIMER (OPTIONAL)

RESUFLOR WB CLEAR OR RESUPRIME ST

1. Mix Resuflor WB Clear Part A (base) with Resuflor WB Clear Part B (hardener) to a uniform consistency. If a separate mixing bucket is being used mix thoroughly ensuring all contents of both components are removed from the buckets supplied.
2. Mix using a low speed mixer and paddle (300-400 rpm) for 2-3 minutes, until a uniform mixed product is obtained.
3. The mixed unit should be applied immediately by roller, brush and/or squeegee with a consistent procedure at a rate of 6 m²/kg, with no puddles. Floor areas should be cross-rolled to ensure even application and to minimise roller marks.
4. Allow to cure for a minimum 8 hours at 20°C.
5. If a high build primer is required use Resuprime ST applied at 0.25 kg/m²

BASECOAT

RESUFLOR HB

1. Premix Resuflor HB Colour Base separately for one minute and until uniform, exercising caution not to trap air into the material. Mix Resuflor Colour Base with Resuflor HB Hardener to a uniform consistency. If a separate mixing bucket is being used mix thoroughly ensuring all contents of both components are removed from the buckets supplied.
2. Mix using a low speed mixer and paddle (300-400 rpm) for 2-3 minutes, until a uniform mixed product is obtained.
3. The mixed unit should be applied immediately by roller, brush and/or squeegee with a consistent procedure at a rate of 0.25 kg/m², with no puddles. Floor areas should be cross-rolled to ensure even application and to minimise roller marks.
4. Allow to cure for a minimum 6 hours at 20°C or until the surface has lost its tackiness.
5. NB: If a light anti-slip textured finish is required as soon as Resuflor HB has settled broadcast evenly Aluminium Oxide Aggregate into the wet resin consistently at an approximate rate of 0.1 kg/m² (or 10m² per kg). The Aluminium Oxide Aggregate may be spread evenly by hand or mechanical blower. Alternatively a full scatter to obliteration of silica sand can be applied (at approximately 2 kg/m²). This builds up the thickness of the system but coverage rates of the base coat and topcoat of Resuflor HB are reduced to around 0.33 - 0.5 kg/m².
6. Continue broadcasting until the floor aggregate appears evenly distributed with a light texture without any clusters of aggregate.

TOPCOAT

RESUFLOR HB

1. Premix Resuflor HB Colour Base separately for one minute and until uniform, exercising caution not to trap air into the material. Mix Resuflor HB Colour Base with Resuflor HB Hardener to a uniform consistency. If a separate mixing bucket is being used mix thoroughly ensuring all contents of both components are removed from the buckets supplied.
2. Mix using a low speed mixer and paddle (300-400 rpm) for 2-3 minutes, until a uniform mixed product is obtained.
3. The mixed unit should be applied immediately by roller, brush and/or squeegee with a consistent procedure at a rate of 0.25 kg/m², with no puddles. Floor areas should be cross-rolled to ensure even application and to minimise roller marks.
4. Allow to cure for a minimum 12-16 hours at 20°C before receiving light traffic.

NB: Cure times are extended at low temperatures.



**RESUFLOOR TOPCOAT
FINISHED WORKING SYSTEM,
COPPERWORKS FACTORY.**

CLEAN UP

Cleaning up mixing and application equipment immediately after use. For details see the Product data Sheet.

SAFETY

Refer to the SDS sheet before use. All applicable laws and particular plant safety guidelines must be followed during the handling and installation and cure of these materials.

Safe and proper disposal of excess materials shall be done in accordance with regional legislation.

MATERIAL STORAGE

Store materials in a temperature controlled environment (10°C–30°C) and out of direct sunlight.

Keep resins, hardeners, and solvents separated from each other and away from sources of ignition.

MAINTENANCE AND CLEANING

Sherwin-Williams recommends a floor cleaning regime is used for maximum performance and aesthetics of the resin floor, using adequate cleaners.

Where required floor scrubbers, rotary washers or power washing can be operated.

All surfaces should be thoroughly rinsed with clean water after the use of cleaners.

If more information is requested contact your local Sherwin-Williams representative.

Please refer to the Sherwin-Williams Guide for cleaning resin floors for advice.

DISCLAIMER

The information and recommendations set forth in this document 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(s) offered at the time of publication. Published technical data and instructions are subject to change without notice.

Consult technicale@sherwin.com to obtain the most recent product data information and application instructions.

WARRANTY

The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams. No warranty or guarantee of any kind is made by Sherwin-Williams, expressed or implied, statutory, by operation of law or otherwise including merchantability and fitness for a particular purpose.