

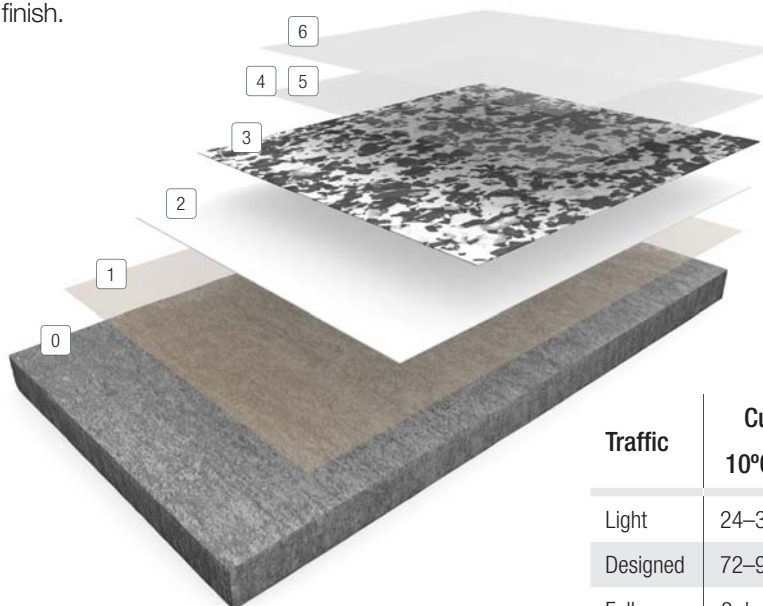


Resucoat™ Deco Flake SF

Decorative epoxy floor screed system

Resucoat Deco Flake SF is a multi-component epoxy floor system which utilises coloured flakes applied to a base coat to provide a 1 mm thick decorative flooring finish. Resucoat Deco Flake SF provides a solvent free low odour flooring solution with a hard wearing gloss or matt finish.

- 6 **Seal coat:**
Resupen WB Matt Clear
- 5 **Grout coat 2: (optional)**
Resutop Clear
- 4 **Grout coat 1:**
Resutop Clear
- 3 **Broadcast:**
Coloured flakes
- 2 **Base coat:**
Resucoat HB
- 1 **Primer:**
Resuprime ST/MVT
- 0 **Substrate:**



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	Up to 7 days	5 days

Benefits

- Decorative and functional surfaces
- High build
- Low odour
- Tough and durable
- Can be applied onto a wide range of substrates.

Scope of use

- Decorative seamless floor areas
- Domestic areas
- Retail spaces
- Stadiums and arenas
- Factory units
- Toilets and washrooms.

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 ISO 6272-1:2011	-
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	1 mm



System composition

VOC EC Solvent Emissions Directive

Component	Product	Application	VOC	Theoretical consumption	Coverage per unit	Packaging
Primer	Resuprime ST/MVT	Roller	86 g/L	0.25 kg/m ²	20 m ² (5 kg)	5 kg/15 kg
Base coat	Resucoat HB	Roller	186 g/L	0.5 kg/m ²	10 m ²	5 kg
Broadcast	Coloured flakes	Broadcast	N/A	0.5 kg/m ²	50 m ²	25 kg
Grout coat 1	Resutop Clear	Squeegee/roller	12 g/L	0.5 kg/m ²	10 m ²	5 kg
Grout coat 2	Resutop Clear	Squeegee/roller	12 g/L	0.5 kg/m ²	10 m ²	5 kg
Seal coat	Resupen WB Matt Clear	Squeegee/roller	<42 g/L	0.12 L	40 m ²	5 L

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 and steel – substrate requirements

To achieve the best performance from Resucoat Deco Flake SF 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 BS 8204, 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 the product data sheet. The number of coats of Resuprime MVT will be dependent on the moisture content.

Concrete and steel – surface preparation

Surfaces should be prepared by vacuum shot-blasting 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. Perimeter anchor joints may be required to enhance adhesion. 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 contact 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.

1. Primer	Resuprime ST	<ul style="list-style-type: none">• Mix Rusprime ST/MVT Part A (base) with Rusprime ST/MVT Part B (hardener). These units are in preweighed containers.• Mix using a low speed mixer and paddle (300–400 rpm) for 2–3 minutes, until a uniform mixed product is obtained.• Rusprime ST/MVT is applied by roller, brush or squeegee. Apply at a coverage of 4 m²/kg evenly, with no puddles. Coverage will vary depending upon porosity of the substrate and surface texture.• Apply the primer around the edges of the toe-in anchor joints but do not fill these. Ideally the primer should be allowed to cure for at least 10 hours at 20°C and not longer than 48 hours.
2. Base coat	Resucoat HB	<ul style="list-style-type: none">• Premix the Resucoat HB Part A (coloured base) ensuring any settled pigment is recovered, then add Resucoat HB Part B (hardener). These units are in preweighed containers.• Mix using a low speed mixer (300–400 rpm) for 2–3 minutes, until a uniform mixed product is obtained.• Resucoat HB is applied by roller, brush and squeegee consistently with no puddles at a coverage rate of 0.5 kg/m². This will typically achieve a slightly mottled textured finish.• Apply Resuflake scatter immediately as detailed below.
3. Broadcast	Colour flakes	<ul style="list-style-type: none">• As soon as Resucoat HB has settled broadcast Resuflake evenly into the Resucoat wet resin consistently to obliteration at an approximate rate of 0.5 kg/m². Flakes may be spread by hand or mechanical blower but should be broadcast in such a way that the flakes fall lightly into resin without causing the resin to move. Do not throw downward at a sharp angle using force.• Continue broadcasting to excess until the floor appears completely even and covered consistently with the Resuflake.• Allow to cure for 8 hours at 20°C and not longer than 48 hours. Sweep off excess Resuflake with a clean, stiff bristled broom or vacuum. Clean Resuflake can be saved for future use where appropriate.• Any imperfections such as high spots should be smoothed before the application of the top coat.
4. Grout coat 1	Resutop Clear	<ul style="list-style-type: none">• Premix the Resutop Clear Part A (coloured base) ensuring any settled pigment is recovered, then add Resutop Clear Part B (hardener). These units are in preweighed containers.• Mix using a low speed mixer (300–400 rpm) for 2–3 minutes, until a uniform mixed product is obtained.• Resutop Clear is applied by brush, roller, or squeegee at a rate of 2 m²/kg, evenly, with no puddles. This will typically achieve a slightly mottled textured finish.
5. Grout coat 2 (optional)	Resutop Clear	<ul style="list-style-type: none">• Premix the Resutop Clear Part A (coloured base) ensuring any settled pigment is recovered, then add Resutop Clear Part B (hardener). These units are in preweighed containers.• Mix using a low speed mixer (300–400 rpm) for 2–3 minutes, until a uniform mixed product is obtained.• Resutop Clear is applied by brush, roller, or squeegee at a rate of 2 m²/kg.
6. Seal coat	Resupen WB Matt Clear	<ul style="list-style-type: none">• Lightly sand the surface with care to remove any high spots without effecting the aesthetic finish of the Resuflake.• Mix the Resupen WB Matt Clear Part A (coloured base) and add Resupen WB Matt Clear Part B (hardener). These units are in pre weighed containers.• Mix using a low speed mixer (300–400 rpm) for 2–3 minutes, until a uniform mixed product is obtained.• Resupen WB Matt Clear is applied by brush, roller, or squeegee at a rate of 8 m²/l, evenly, with no puddles.• Allow to cure for 24 hours minimum before opening to traffic.



Application guidance



Resucoat Deco Flake SF – finished working system. Education facility, United Kingdom.

Clean up

Clean up mixing and application equipment immediately after use. Use appropriate solvent such as Xylene. Observe all fire and health precautions when handling or storing solvents.

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.

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

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 recommend a floor scrubber utilising Industrial Floor Cleaner or similar with dirty water being removed. Isolated localised cleaning can be carried out using Tyre Mark Remover, Fats and Grease Remover and Oil Remover.

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

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

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.



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