

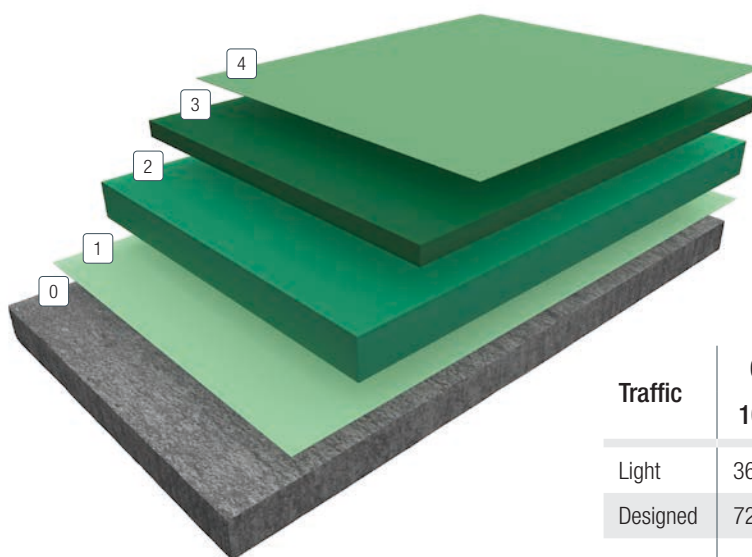


SofTop™ Comfort LM

Flexible self-smoothing resin comfort floor system

SofTop Comfort LM is a flexible self-smoothing polyurethane resin comfort floor system which provides a hard wearing finish typically at 8–10 mm thickness, for sports floor and commercial applications. The SofTop Comfort LM system is environmentally friendly, using natural plant oils in its formulation. This system can utilise SofTop SLR Flex UV for UV (Ultra Violet) stability through the whole system.

- ④ **Seal:**
SofTop MC/SofTop CMC
- ③ **Screed:**
SofTop SLR Flex/SofTop SLR Flex UV
- ② **Membrane:**
SofTop LM
- ① **Primer:**
SofTop LVP
- ① **Substrate:**



Traffic	Cure to service (hrs)		
	10°C	20°C	30°C
Light	36–48	24–36	18–24
Designed	72–96	48–72	36–48
Full cure	8 days	Up to 7 days	5 days

Benefits

- Flexible with bounce
- Reduced vibration
- Sound absorbing
- Seamless
- Matt finish
- Extremely hard wearing
- Hygienic
- Good chemical resistance
- Smooth finish for precise operation equipment

Typical physical properties

Bond strength – BS EN 13892-8:2002	>1.5 MP (substrate failure)
Temperature resistance	Tolerant of temperatures up to 90°C
Chemical resistance	Good
Reaction to fire – BS EN 13501-1:2018	B _{FL} – s1
UV stable	Yes
FerFa class	Class 5
System thickness	8–10 mm

Scope of use

- Sports halls
- Hospitals
- Schools
- Offices
- Atriums
- Studios
- Pharmaceutical areas

System composition

VOC EC Solvent Emissions Directive

Component	Product	Application	VOC	Theoretical consumption	Coverage per unit m ²	Packaging
Primer	SofTop LVP	Squeegee/roller	<56 g/L	0.3–0.5 kg/m ²	32–42 m ²	16 kg
Membrane	SofTop LM	Trowel/spiked roller	<10 g/L	9.8 kg/m ² (7 mm depth)	2 m ²	19.5 kg
Screed	SofTop SLR Flex/SofTop SLR Flex UV	Trowel/spiked roller	<10 g/L	2.8 kg/m ² (2 mm depth)	8.4 m ²	23.5 L
UV Seal (optional for UV stability)	SofTop MC/SofTop CMC	Roller	475 g/L	0.05–0.15 kg/m ²	63–90 m ²	8.5–9.5 kg

NB: For the UV seal Resupen WB Colour can be used instead of SofTop MC/SofTop CMC if a solvent free material is required.

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 SofTop Comfort LM 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 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.

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 5°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	SofTop LVP	<ul style="list-style-type: none"> • Add SofTop LVP Part A (base) to SofTop LVP 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. • SofTop LVP is applied by roller, brush or squeegee and should be applied at 2–3 m²/kg. evenly, with no puddles. Coverage will vary depending upon porosity of the substrate and surface texture. • SofTop LVP should be allowed to cure for at least 12 hours at 20°C and not longer than 48 hours.
2. Membrane	SofTop LM	<ul style="list-style-type: none"> • Pre mix SofTop LM Part A (coloured base) ensuring any settled pigment is recovered, then add SofTop LM Part B (hardener) and mix to an even consistency using a low speed mixer and paddle (300–400 rpm) for 2–3 minutes, until a uniform mixed product is obtained. • Scrape the sides and the bottom of the container during mixing and keep the mixing head submerged to avoid entrapping air. Decant the mixed material into a fresh container and remix for another minute. Do not work out of the original container. • Apply to pre-primed areas as soon after mixing as possible, (delay can result in variation in surface finish, colour and add to application problems). Pour evenly over the appropriate area to be covered (monitoring the rate of coverage to ensure correct depth of the membrane). Work out the mix rapidly and evenly over the area with a notched trowel, pin rake or similar to the appropriate thickness. • Roll the area after about 10 minutes with a spiked roller to achieve an even smooth surface and to remove any trapped air. Low temperatures and reduced thickness may reduce the flow properties of these products. • SofTop LM should be applied at 2 m² per 19.5 kg unit to achieve a minimum 7 mm thickness. • SofTop LM should be allowed to cure and will be suitable for light traffic after 24 hours at 20°C.
3. Screed	SofTop SLR Flex/ SofTop SLR Flex UV	<ul style="list-style-type: none"> • Pre mix SofTop SLR Flex Part A (coloured base) ensuring any settled pigment is recovered, then add SofTop SLR Flex Part B (hardener) and mix to an even consistency using a low speed mixer and paddle (300–400 rpm) for 2–3 minutes, until a uniform mixed product is obtained. • Scrape the sides and the bottom of the container during mixing and keep the mixing head submerged to avoid entrapping air. Decant the mixed material into a fresh container and remix for another minute. Do not work out of the original container. • Apply to pre-primed areas as soon after mixing as possible, (delay can result in variation in surface finish, colour and add to application problems). Pour evenly over the appropriate area to be covered (monitoring the rate of coverage to ensure correct depth of the membrane). Work out the mix rapidly and evenly over the area with a notched trowel, pin rake or similar to the appropriate thickness. • Roll the area after about 10 minutes with a spiked roller to achieve an even smooth surface and to remove any trapped air. Low temperatures and reduced thickness may reduce the flow properties of these products. • SofTop SLR Flex should be applied at 8.4 m² per 23.5 kg unit to achieve a minimum 2 mm thickness. • SofTop SLR Flex should be allowed to cure and will be suitable for light traffic after 24 hours at 20°C.
4. UV Seal (optional for UV stability)	SofTop MC/ SofTop CMC	<ul style="list-style-type: none"> • Premix SofTop MC or CMC Part A (base) separately for one minute and until uniform, exercising caution not to trap air into the material. Mix SofTop MC or CMC Part A (base) with SofTop MC or CMC 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. • Mix using a low speed mixer and paddle (300–400 rpm) for 2–3 minutes, until a uniform mixed product is obtained. • The mixed unit should be applied immediately by roller, brush and/or squeegee with a consistent procedure at a rate of up to 20 m²/L, with no puddles. Floor areas should be cross-rolled to ensure even application and to minimise roller marks. • Allow to cure for a minimum 10–12 hours at 20°C before receiving light traffic. • A 2nd optional application of SofTop MC or CMC can be done to increase the coating thickness and ensure maximum opacity with an even finish.
4. Joints		<ul style="list-style-type: none"> • Any functioning joints in the subfloor should be continued through the resin flooring system and filled with Epo-Flex VJ. The spacing and type of joints should be determined prior to the resin floor system being installed. • Mix Epo-Flex VJ Part A (base) with Epo-Flex VJ 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. • Apply the Epo-Flex VJ immediately to the prepared and cut joints with a knife to a consistent smooth finish.

NB: Cure times are extended at low temperatures.

Sherwin-Williams high performance flooring



SofTop Comfort LM – finished working system.

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 should be done in accordance with applicable local authority codes.

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 (15°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.