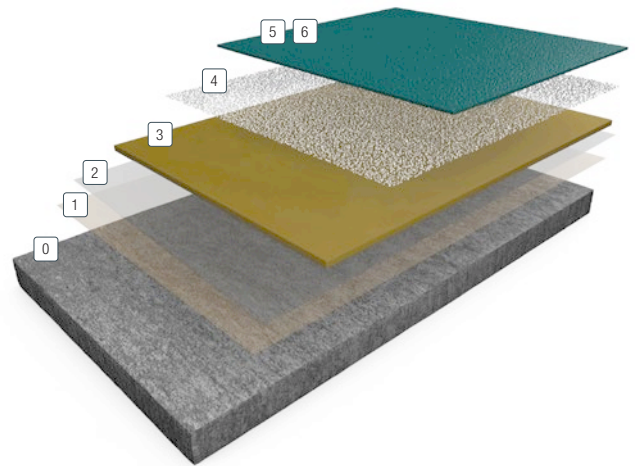


RESUDECK™ TD

CAR PARK POLYURETHANE TOP DECK FLOORING SYSTEM

Resudeck TD is a multi-component flexibilised polyurethane flooring system for car park top decks and other exposed areas where vehicles are in use. Resudeck TD is a rapid return to service, UV stable, solvent free and low odour crack bridging flooring solution, which reduces noise from traffic movement and delivers a modern aesthetically pleasing bright finish for new build or refurbishment projects.



Traffic	Cure to service (hrs)		
	10°C	20°C	30°C
Light	8-12	6-8	4-6
Designed	36-48	24-36	16-24
Full Cure	7-10	7 Days	5-7 Days

- ① **Substrate:**
- ② **Primer:** Resuprime PU
- ③ **Membrane:** Resudeck Membrane
- ④ **Intermediate coat:** Resubind CP
- ⑤ **Broadcast:** Quartz sand
- ⑥ **Top coat:** Resudeck ST
- ⑦ **Topseal:** Resutile ST Colour

BENEFITS

- UV stable
- Flexibilised crack bridging system for dynamic movement suitability
- Reduced tyre squeal and noise
- Enhanced slip and skid resistance
- Resistance to chemical attack
- Resistance to hairline cracks
- Low VOC

SCOPE OF USE

- For parking and driving facilities on areas exposed to sunlight
- Where a high build system is required

TYPICAL PHYSICAL PROPERTIES

Hardness @ 24 hours, Shore D	BS ISO 7619-1:2010	52
Abrasion resistance	EN 13892-5	AR6
Compressive strength	BS EN ISO 604:2003	9.7 MPa
Tensile strength	BS EN ISO 527-2:2012	0.28 MPa
Flexural strength	ISO 178:2010+A1:2013	-
Bond strength	BS EN 13892-8:2002	<3 N/mm ² (substrate failure)
Impact resistance	EN ISO 6272	>4
Temperature resistance	Tolerant of temperatures up to 70°C	
Chemical resistance	Excellent	
Reaction to fire	BS EN 13501-1:2018	B _{FL} – s1
UV stable	Yes	
FerFa class	Class 4	
System thickness	2.5-2.8 mm	
Slip resistance	ASTM E303	<36 (low slip potential in wet/dry conditions)

SYSTEM COMPOSITION

VOC EC Solvent Emissions Directive

Component	Product	Application	VOC	Theoretical consumption
Primer	Resuprime PU	Squeegee/roller	<5 g/L	0.24 kg/m ²
Membrane	Resudeck Membrane	Squeegee/roller	<5 g/L	0.5 kg/m ²
Base coat	Resubind CP	Squeegee	<5 g/L	0.65 kg/m ²
Broadcast	Quartz sand	Broadcast	N/A	1.75-2.00 kg/m ²
Top coat	Resudeck ST	Squeegee/roller	<1 g/L	0.70 kg/m ²
Topseal	Resutile ST Colour	Squeegee/roller	480 g/L	0.18 kg/m ²

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 also be covered. 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 Resudeck TD 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% RH 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 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 8°C–25°C. Substrate temperature must be at least 3°C above the dew point. Applications on concrete substrate should occur while temperature is falling to lessen off gassing. The material should not be applied in direct sunlight, if possible.

APPLICATION GUIDANCE

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

PRIMER

RESUPRIME PU

1. Mix Resuprime PU Base Part A with Resuprime PU Hardener Part B. These units are in preweighed containers.
2. Mix using a low speed mixer and paddle (300-400 rpm) for 2-3 minutes, until a uniform mixed product is obtained.
3. Resuprime PU may be applied by roller, brush or squeegee at around 0.25 kg/m² evenly, with no puddles.
4. Coverage will vary depending upon porosity of the substrate and surface texture.

MEMBRANE

RESUDECK MEMBRANE

1. Pre mix Resudeck Membrane Base Part A separately to a uniform consistency then mix the entire contents of the base with Resudeck Membrane Hardener Part B. 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 0.5 kg/m², with no puddles. Floor areas should be cross-rolled to ensure even application and to minimise roller marks.

BASE COAT

RESUBIND CP

1. Mix Resubind CP Part A (base) with Resubind CP Part B (hardener). These units are in preweighed containers.
2. Mix using a low speed mixer and paddle (300-400 rpm) for 2-3 minutes, until a uniform mixed product is obtained.
3. If transferring to another container ensure all components are thoroughly scraped out.
4. Add Filler SL2 Part C slowly whilst mixing and mix at high speed until no lumps remain. Try to minimise air entrapment during mixing.
5. Apply using a squeegee at a rate of 0.65 kg/m² consistently and evenly across the floor.

BROADCAST

QUARTZ SAND

1. As soon as Resubind CP has settled broadcast evenly the quartz sand into wet resin consistently to obliteration at an approximate rate of 2 kg/m². The quartz sand may be spread evenly by hand or mechanical blower.
2. Continue broadcasting to excess until the floor appears completely dry and even.
3. Allow to cure for 24 hours, sweep off excess sand with a clean, stiff bristled broom or vacuum. Clean granules can be saved for future use where appropriate.
4. Any imperfections such as high spots should be smoothed before the application of the top coat.

TOP COAT

RESUDECK ST

1. Lightly sand the surface to remove any high spots. This process should be done with care.
2. Pre mix Resudeck ST Part A (base) separately for one minute and until uniform, exercising caution not to trap air into the materials. Then add Resudeck ST Part B (hardener).
3. Mix using a low speed mixer and paddle (300-400 rpm) for 2-3 minutes, until a uniform mixed product is obtained.
4. The mixed unit should be applied immediately by roller, brush and/or squeegee with a consistent procedure at a rate of 0.70 kg/m², with no puddles. Floor areas should be cross-rolled to ensure even application and to minimise roller marks.
5. Allow to cure for a minimum 24 hours at 20°C before receiving traffic.

TOP SEAL

RESUTILE ST COLOUR

1. Premix Resutile ST Colour Part A (base) separately for one minute and until uniform, exercising caution not to trap air into the material. Mix Resutile Part A (base) with Resutile 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 0.18 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 10-12 hours at 20°C before receiving light traffic.

NB: Cure times are extended at low temperatures.



**RESUDECK TD
JUMEIRAH LAKES TOWERS,
DUBAI, UNITED ARAB EMIRATES.**

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.