RESIN SURFACES LIMITED

A SHERWIN-WILLIAMS Company

REF : TIWL 2016 06

Resutile Wall

DESCRIPTION

Resutile is a high grade, two-pack, hard wearing polyurethane wall coating designed for maximum chemical resistance which is light-fast and flexible. Resutile has good resistance to impact abrasion. The system is resistant to high temperatures up to 150^{0}C.

ADVANTAGES

- Excellent chemical resistance
- UV stable, will not discolour
- Some flexibility
- Good abrasion and impact resistance
- Ease of cleaning , including removal of graffiti
- Excellent resistance to thermal shock and hot water
- Available in a range of attractive colours

RECOMMENDED USES

- Aircraft hangars
- Laboratories
- Chemical plants
- Prisons and police cells
- Operating theatres
- Schools
- Pharmaceutical areas
- Toilets

PRODUCT INFORMATION

System thickness (dry)	Solids content by weight	Pack sizes	Pack make up	Shelf life	Storage
68 microns (Per coat)	68 %	2.5 litres & 5 litres	1 X Base 1 X Hardener	12 months in sealed containers	Keep out of direct sunlight Store in a dry Place

DRYING TIMES & COVERAGE RATES at 20˚C

Coverage rate	Pot life	Recoat time	Light traffic	Full traffic	Full chemical cure
2.5 litre - 20 sq m 5 litre - 40 sq m	40 minutes after mixing	6 hours or once surface has lost tackiness	24 Hours	3 Days	7 days

CPD CERTIFIED Construction CPD Certification Service

nbsPlus

riba product selector

Campden BRI food and drink innovation

BCF BRITISH COATINGS FEDERATION

MADE IN THE UK

FeRFA Resin Flooring Association

Specification

Product : Resutile Wall Grade

Finish : Gloss

Thickness : 68 microns

Colour : see RSL Colour chart

Products required for this system

Prime : Resuseal WB Clear / Resuseal Wall Gloss

System : Resutile

Surface Seal : N/A

Preparation

All surfaces to be coated with **Resutile** must be clean and dry and free from grease, oil and dirt. Hard smooth surfaces should be abraded or sanded to provide a mechanical key. Where open blockwork is to be coated this should be filled with **R.S. Blockfiller** or bag rubbed with a sand cement mix to create a continuous paintable surface.

Priming

Substrates should be primed with **Resuseal WB Clear Primer**.

Application

The ambient temperatures of the areas should not be allowed to fall below 10^0C throughout the application and the curing period, as this could have an adverse effect on the appearance and colour of the system. Surface temperature must be above 5^0C.

Where possible it is recommended that the application area is heated to a minimum temperature of 15^0C ideally to allow the ambient and substrate temperature to stabilise prior to installation.

Mixing: Pre-mix the base component to a uniform colour then 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 slow speed electric mixer for approximately two minutes or until the two components have fully combined.

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

Coverage rates will depend on porosity of the substrate.

Results from CAPSIS independent testing

A) WATER VAPOUR PERMEATION
Tested to ASTM E96-80, water transmission of materials - desiccant method. Average permeability value - 2.38 x 10-3g/mm/h/m^2/mm Hg.

B) LINEAR CO-EFFICIENT OF THERMAL EXPANSION
Extension rod dilatometry method - 15^0C - 30^0C. Co-efficient of thermal expansion for the above temperature interval - 7.5 x 10-5^0C.

C) HARDNESS MEASUREMENT
Tested to ASTM D.2240-85 with Shore D Durometer. Average result from readings - 50.5 Shore D.

D) ADHESION TESTING
Tested to BS.3900 Part E.10.
(Pull off method), using Elcometer Model 106 adhesion tester. Lift force of pull-off readings - 233 psi.

E) TABER ABRASION
Tested to ASTM D.4060 (Taber method) using a CS17 abrasive wheel at 1000g. load for 1000 revolutions. Total weight loss - 79 micrometres.

F) IMPACT RESISTANCE
Tested to BS.3900 Part E7. (falling weight impact method). Average result obtained from 20 measurements - 154 micrometres

Category Guide

FeRFA Category : 2

Technical Information

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

Slip Resistance	Dry	> 60
Method BS7976 pt1-3 2002	Wet	Please consult RSL

The slip resistance of a floor surface can vary as a result of the installation process, conditions at the time of application and subsequent traffic. Inappropriate cleaning or maintenance can adversely affect the performance. For further advice on potential wet areas please consult RSL.

Abrasion Resistance	n/a
Method BS8204 /ASTM D4060	
Temperature Resistance	Tolerant of sustained temperatures of up to 150^0C
Chemical Resistance	Excellent. Consult RSL for further details
Compressive Strength	n/a
Flexural Strength	n/a
Tensile Strength	n/a
VOC	430 g/l
	Calculation based on a full mixed unit
Life Expectancy	4 years plus
	Subjected to Industrial Traffic RSL terms and conditions will apply

Maintenance and Cleaning

RSL recommend that **Resutile** should be cleaned with a regular industrial cleaning regime with a floor scrubber utilising **R.S. Industrial Floor Cleaner** or similar with dirty water being removed. Isolated localised cleaning can be carried out using **R.S. Tyre Mark Remover, R.S. Fats and Grease Remover** & **R.S. Oil Remover**. All surfaces should be thoroughly rinsed with clean water after the use of chemical cleaners.

Please refer to the RSL Guide to Cleaning of Resin Floors

Health and Safety

Resutile is formulated from materials designed to achieve the highest level of performance as safely as possible. However, specific components require proper handling and suitable equipment, this information is given in the relevant safety data sheets. In all cases, spillages or skin contamination should be cleaned as soon as practically possible, by dry wiping of the affected area, and thorough washing with soap and water.

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