

# Resutile

Light-fast high chemical resistant floor coating



RESIN SURFACES LIMITED

## Product Data Sheet

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### DESCRIPTION

RESUTILE is a high grade, two-pack, hard wearing polyurethane floor coating designed for maximum chemical resistance which is light-fast and flexible. RESUTILE has good resistance to impact abrasion and trafficking. The system is resistant to high temperatures up to 150°C. Slight discolouration may occur at extreme temperatures.

### ADVANTAGES

1. Maximum chemical resistance
2. Seamless
3. Good abrasion and impact resistance
4. Easy cleaning, including removal of graffiti
5. Light-fast
6. Resistant to thermal shock & hot water
7. Hygienic - does not support fungus or bacterial growth
8. Attractive range of colours available

### GRADES AVAILABLE

#### RESUTILE STANDARD

For general usage produced as a semi-gloss finish.

#### RESUTILE MATT

Matt finish grade of RESUTILE produced as a three-pack product.

### WHERE TO USE

RESUTILE is ideal where a seamless finish is required in such environments as:

Food preparation and manufacturing areas, laboratories, chemical plants, aircraft hangars, vehicle maintenance bays, abattoirs, breweries, mortuaries, bakeries, toilets, operating theatres and all areas where a long lasting, easily cleaned, high chemical resistance finish is essential.

**CAUTION:** Because of the solvents in RESUTILE, the product should not be applied near, or in the presence, of open food.

### PHYSICAL PROPERTIES

**Solids Content**  
approx. 60%

**Coverage**  
7-8 sq.m. per lt. per coat

**Dry film thickness**  
75 microns at a coverage rate of 8 sq.m. per lt.

**Pot Life at 20°C**  
40 minutes

**Tack free time**  
2 hours at 20°C

**Hard film time**  
6 hours at 20°C

**Full chemical resistance**  
5 days at 20°C

**Application temperature limits**  
+ 5°C to 30°C

**Shelf life**  
6 months at ambient temperature

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## **PREPARATION**

All surfaces to be coated with RESUTILE should be clean, dry and free from oil, grease etc.

## **PRIMING**

Apply onto the properly prepared surface a coat of RESUSEAL W.B. CLEAR.

## **MIXING AND APPLICATION**

Mix the base and hardener thoroughly together, ideally by slow speed mechanical mixer, scraping all loose material with a knife from the sides and base of the container to ensure a complete mix is obtained. Apply by brush, roller or spray. When dry and within a maximum period of 18 hours after drying, apply the second or subsequent coat of RESUTILE. Due to the pot life of RESUTILE the whole of the material has to be used when mixed within the time period.

## **CLEANING**

Tools, brushes and mixing machines should be cleaned as soon as possible with R.S. P.U. Solvent. Do not allow to set hard.

## **TECHNICAL DETAILS**

Samples of RESUTILE were tested by CAPCIS, an independent testing company. CAPCIS stated that the results indicated below showed good performance as a hard wearing floor coating.

### **(A) WATER VAPOUR PERMEATION**

Tested to ASTM E96-80, water transmission of materials - desiccant method. Average permeability value - 2.38 x 10<sup>-3</sup>g/mm/h/m<sup>2</sup>/mm Hg.

### **B) LINEAR CO-EFFICIENT OF THERMAL EXPANSION**

Extension rod dilatometry method - 15<sup>o</sup>C - 30<sup>o</sup>C. Co-efficient of thermal expansion for the above temperature interval - 7.5 x 10<sup>-5</sup>C.

### **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.

Full details of all the above test results are available from Resin Surfaces Ltd.

## **HYGIENE**

Due to the solvents present etc. smoking or naked lights should be prohibited and RESUTILE should not be applied in the presence of open food. Adequate ventilation should be provided and the use of barrier creams and wearing of glasses is recommended.

RESUTILE should not be allowed to set on skin.

## **Consult Safety Data Sheet Ref. HSTL**

The information given in this data sheet are derived from tests and experience with the products and is believed to be reliable. The information is offered without guarantee to enable purchasers to determine for themselves the suitability of the product for their particular application. Any specification or advice given by the company is based on the information supplied by the purchaser. Resin Surfaces Limited cannot be held accountable for errors or omissions as a result of that information being incorrect or incomplete. No undertakings can be given against infringement of patents.