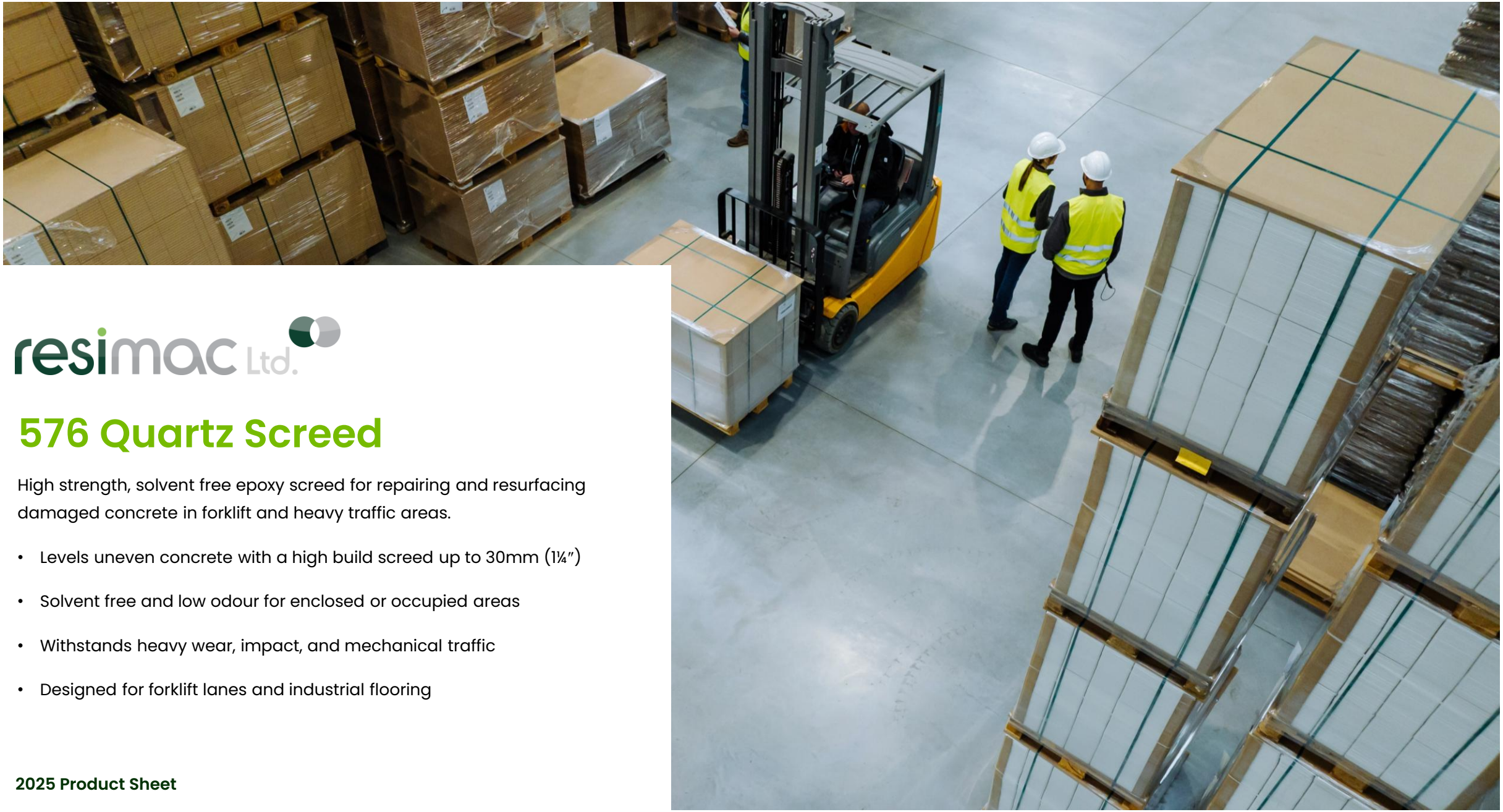

resimac Ltd.

576 Quartz Screed

High strength, solvent free epoxy screed for repairing and resurfacing damaged concrete in forklift and heavy traffic areas.

- Levels uneven concrete with a high build screed up to 30mm (1¼″)
- Solvent free and low odour for enclosed or occupied areas
- Withstands heavy wear, impact, and mechanical traffic
- Designed for forklift lanes and industrial flooring

2025 Product Sheet

Typical Applications

576 Quartz Screed is a high build, solvent free epoxy repair mortar developed for levelling and resurfacing uneven concrete surfaces. Supplied with its own primer and as a three component system with pre-blended aggregate, it can be trowel applied at thicknesses from 10mm to 30mm (⅜"–1¼") in a single application.

- Concrete floors
- Industrial warehouses
- Offices and laboratories
- Problematic cementitious surfaces
- Manufacturing environments

Characteristics

Appearance

Base	Clear liquid
Activator	Straw liquid
Aggregate	Natural, grey
Mixed	Natural, grey

Solids Content

100%

Volume Capacity

400cc/kg

Sag Resistance

Nil at 20mm

Density

Base	1.12
Activator	1.00
Aggregate	2.7
Mixed	2.5

Mixing Ratio

By weight	9:1

Storage Life

5 years if unopened and stored in normal dry conditions, 15-30°C (59-86°F)

Cure times

Usable Life		Foot traffic		Forklift traffic	
10°C/50°F	60 mins	10°C/50°F	48hours	10°C/50°F	96 hours
20°C/68°F	45 mins	20°C/68°F	24 hours	20°C/68°F	48 hours
30°C/86°F	25 mins	30°C/86°F	12 hours	30°C/86°F	24 hours
40°C/104°F	15 mins	40°C/104°F	6 hours	40°C/104°F	12 hours

Coverage

10kg (22lbs) of fully mixed product will give the following coverage rates

0.86m² at 5mm	9.25ft² at 0.2"
0.21m² at 20mm	2.3ft² at 0.75"
45kg (99lbs)	
3.6m² at 5mm	39ft² at 0.2"
0.9m² at 20mm	97ft² at 0.75"

Please note that the coverage rates quoted are theoretical and do not take into consideration the profile or condition of the surface being repaired.

Mechanical Properties

Abrasion Resistance
Taber CS17 Wheels/1kg load
ASTM D4060
145mg loss/1000 cycles
0.53cc loss/1000 cycles

Compressive Strength
Tested to ASTM D695
880kg/cm² (12500psi)

Impact Resistance
Tested to ASTM D256
1.8 joules

Direct Pull off Adhesion
Tested to ASTM D4541-17
35kg/cm² (500psi)
Concrete failure

Flexural Strength
Tested to ASTM D790
490kg/cm² (7000psi)

Shrinkage
Tested to ASTM C246
Nil

Details & Legal

Quality
All Resimac Products are supplied under the scope of the company's fully documented quality system.

Warranty
Resimac warrants that the performance of the product supplied will conform to the typical descriptions quoted within this specification provided material is stored correctly and used according to the procedures detailed in this document.

Pack Sizes
This product is available in the following pack sizes:
10kg (22lbs)
45kg (99lbs)

Chemical Resistance
The product resists attack by a wide variety of low concentration industrial chemicals:

Typical Chemicals	*Max Temp*
Brine	40°C (104°F)
Crude Oil	40°C (104°F)
De-ionised Water	20°C (68°F)
Diesel	40°C (104°F)
Hydrochloric Acid 10%	40°C (104°F)
Phosphoric Acid 30%	40°C (104°F)
Sodium Hydroxide 50%	40°C (104°F)
Sulphuric acid 20%	40°C (104°F)

Application Guide

A. Surface Preparation

Existing concrete:

1. If the concrete surface is contaminated, pressure wash using clean water.
2. Once the concrete is dry, lightly abrasive blast or scarify taking care not to expose the aggregate.

New concrete:

1. Allow new concrete to cure for a minimum of 21 days and treat to remove any surface laitance.
2. Check the moisture content of the concrete prior to coating (8% moisture content or below).

   Lightly scarify the surface taking care not to expose the aggregate.

Health & Safety

Please ensure good practice is observed at all times during the mixing and application of this product. Protective gloves and other recommended personal protective equipment must be worn during the mixing and application of this product.

Before mixing and applying the material, please ensure you have read and fully understood all information.

B. Priming

Prime all surfaces with 576 Quartz primer :

1. Pour the contents of the primer activator into the base container and mix until fully combined.
2. Apply 576 Quartz screed primer to the repair surface using a brush or roller.
3. Apply 576 Quartz screed primer at a wet film thickness of 150 microns (6mil).
4. Leave to cure for a minimum 30 minutes and a maximum of 3 hours at 20°C (68°F).
5. The primer must remain wet/tacky to the touch when overcoating with 576 Quartz screed.
6. If the overcoating window is to be extended, scatter a broadcast of kiln dried silica sand onto the surface.

C. Product Preparation

Prior to mixing, please ensure the following:

1. The base component is at a temperature between 15-25°C (60-77°F).
2. The ambient & surface temperature is above 10°C (50°F).
3. The ambient & surface temperatures are not less than 3°C (6°F) above the dew point.

D. Mixing

Mix the complete unit of material (10kg/45kg):

1. Pour the 576 Quartz Screed Activator into the 576 Quartz Screed Base container.
2. Ensure all of the material is thoroughly mixed and streak free, pay attention to the sides and bottom of the container.
3. Once mixed, pour the contents of the mixed resin product into the large 20ltr container provided.
4. Add 50% of the natural or grey coloured aggregate to the resin mix. Using a screed mixing drill & paddle or rotary drum e.g. Daines mixer.
5. Mix all of the components together until you have a consistent streak free mixture, then add the remaining 50% aggregate, continue mixing until fully combined.
6. Please ensure you pay attention to the bottom and sides of the mixer and ensure all of the contents are mixed properly.

E. Application

1. Once you have the correct consistency empty the contents of the mixed resin onto the floor, or screed box.
2. Spread the screed with a trowel or metal pin rake and then smooth off to the correct level.
3. Once the repair area has been filled with material spray clean water, or solvent onto the face of the trowel and skim the surface of the repair. This will give 576 Quartz Screed a smooth finish.

PLEASE NOTE: In colder climates or when the product is being applied to concrete surfaces lower than 12°C (50°F), add 75% of the aggregate and check the consistency of the mix. Colder temperatures will thicken the resin and therefore less aggregate is required to create a trowel applied product. Just add part of the remaining 25% of aggregate to create the correct level of consistency.

Quick Application Guide

Step 1

Ensure you have:
1 x 576 primer base
1 x 576 primer activator
1 x base unit
1 x activator unit
1 aggregate
1 x screed mixing drill & paddle
(or) 1 x rotary drum
1 x trowel
1 x medium pile roller

Step 2

Mix the 576 primer base and activator components together, apply to the substrate using the roller to a nominal 150 microns.

Step 3

Mix the 576 base & activator components together using a drill & paddle or rotary drum. Add 50 % of the aggregate and mix all together. Add the final 50% aggregate and mix until fully combined.

Step 4

Pour the mixed screed directly onto the substrate or into a screed box to aid spreading. Spread to the required thickness using a screed box or towel pin rake.

Step 5

Using water or solvent on the surface of the trowel, close off the 576 Screed to create a smooth finish.

About Resimac

A UK based manufacturer of epoxy and polyurethane coatings and repair materials.

From our head office in the heart of rural North Yorkshire, England we supply our range of Epoxy, Polyurethane & Silicone coatings and repair materials to the Oil & Gas, Petrochemical, Marine, Paper & Pulp, Water, Power Generation & Chemical Industries.

Legal Notice

Information & Enquiries

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