RezTred®

RezTred® Anti Slip Resin





Genesis

For the Perfect Finish

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RezTred®

Genesis are proud to introduce our anti-slip services to the corporate and retail world.

Our patented anti-slip resin finishes can be applied onto virtually any surface including natural stones, terrazzo, ceramics, porcelains, glazed tiles, metal treads, wood and glass.

All products can be retro-fitted as well as factory installed.

Theoretical coverage per tube:

3 x 10mm = 12m
2 x 25mm = 8m
25mm Discs = 24m (360 discs)

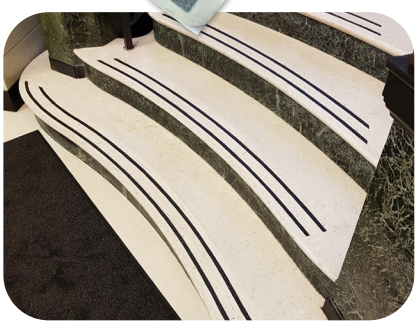
01 White
16 Black
47 Yellow

Code	Description	Finish
NRES	Tube of Resin - 400ml	01,16,47
NRES252 - STEN	25mm Strip Stencil - 1.2m	
NRES103 - STEN	10mm Strip Stencil - 1.2m	
NRES25D - STEN	25mm Disc Stencil - 1.2m	
NRES - GUN	Applicator Gun	
NRES - SQUEEGEE	Applicator Squeegee	
NRES - CLEAN	Cleaner	
NRES - NOZZ	Replacement Nozzle	
NRES - GLOVE	Gloves	

Bespoke Stencil Service

Bespoke Template Service

You can now customise your Anti-Slip needs to best suit your application



RezTred® Products

Applicator Gun

Cleaner

Replacement Nozzle

Applicator Squeegee

Gloves

Tube of Resin

Stencil

Bespoke Stencil Service Available

Strip

Disc

Data Sheet

Product Description

Genesis RezTred® R12 anti-slip resin is a gel-like, two component solvent free adhesive, based on epoxy resins with a modified polyamine hardener.

RezTred® R12 anti-slip resin mix phosphorescent meets the requirements of DIN 67510 part 4. The product is characterised by the following properties:

- Cartridge system provides easy dosing and mixing.
- Easy spreading because of its smooth consistency.
- Can be applied without groove on the stone.
- Very little shrinkage during hardening.
- Very weather resistant.
- Very high stability in contact with alkalis and therefore very suitable for bonding to concrete substrate.
- Non-slipping characteristic (R12) despite closed surface, enabling easy cleaning.
- Good adhesion on mineral surfaces and highly non-abrasive.
- No tendency towards crystallisation, therefore no problems with storage and good safety during processing.

Technical Details

- Mixing ratio – 1: 2 by volume
- Solids content - 100%
- Density (23% C/50% RHA) – 1,45 g / cm^3
- Temperature stability -30°C to + 110°C
- Application temperature + 15°C to + 30°C
- Processing / working time approx 8 min at 20°C
- Drying times approx.
  100 - 120 mins @ 20°C
  45 - 50 mins @ 30°C
  20 - 25 mins @ 40°C
- Curing - approx 1-1.5 hours at 20°C
- Maximum Stability – 24 hours
- Shore D hardness – 85 according to DIN 53505

Field of Application:

RezTred® R12 anti-slip resin creates an extremely non slip surface in the form of a stripe or design, edge and/or ornament on mineral surfaces on natural stone (marble, limestone, granite, concrete or ceramic tiles) on stairs or ramps in entrance areas that are exposed to water and/or sloping.

RezTred® R12 anti-slip resin is suitable for silicate bounded natural stone (e.g. granite) indoor and outdoor, on limestone and marble interior only. Due to the luminescence properties the safety is increased in the case of electrical power failure in areas that are artificially illuminated.

Theoretical coverage:

Breadth of stripes height of stripes running meter/cartridge.

Width	Thickness	Coverage
10mm	1mm	38m
20mm	1mm	19m
50mm	1mm	7.6m

The theoretical coverage is reduced by refining losses.

Shelf life: If stored in a dry and cool condition (5-25°C/41 - 77°F) and in its closed original container at least 2 years from production.

Safety Measures: See EC Safety Data Sheet

Notice: The above information is based on the latest stage of technical progress. It is to be considered as a non-binding

Stencils

25mm Discs

10mm Strips

25mm Strips

Bespoke Stencil Service Available

Data Sheet

Installation

- Thoroughly clean then completely dry surface. Mark off the area to be bonded with adhesive tape and thoroughly roughen the surface (where required).
- Insert the cartridge into the gun, working the grip until resin emerges.
- Apply a layer of the product at a thickness minimum 1mm and max. 2mm. Remove excess material with a spatula flush to the adhesive tape. Remove the adhesive tape latest 10 minutes after the application of the product.
- The mixture remains workable for approx. 10 min (20°C / 68°F). After approx. 20 minutes (20°C / 68°F) the surfaces are dry but optimal curing takes 100 - 120 minutes (20°C / 68°F). Foot traffic may be resumed at this time.
- Warmth accelerates and cold retards the hardening process.
- If stored in a cool place, approx. shelf life is at least 1 year.

Note: A new mixing nozzle is required if Resin is stationary for 10 minutes or longer.

Ancillary Remarks:

- The optimal mechanical and chemical properties can only be attained by adhering to the exact mixing proportions; excess adhesive (comp. A) or hardener (comp. B) has the effect of a plasticizer.
- For hand protection use Liquid Glove or similar hand cream.
- The adhesive is no longer used if it has already thickened or is jellifying.
- The product is not to be used at temperatures under 15°C because it will then insufficiently harden.
- The hardened adhesive can no longer be removed by means of solvents. This can only be achieved mechanically or by applying higher temperature (>200°C).
- If the adhesive has been correctly worked it presents no hazard to health when the hardening process is completed.
- Use only original RezTred mixing nozzle.
- Acid-containing products (e.g. Concrete Film Remover and Rust Remover) lighten the colour of the hardened Anti-Slip Mix layer. This particularly applies to the colour Anthracite.
- Due to weathering of limestone in outdoor areas, a reduction of adhesion of the product is possible.
- Surfaces with a white film caused by the penetration of humidity during the hardening process can be cleaned with 3M citrus orange cleaner and a solvent resistant brush.

RezTred® Slip Resistance

Slip-resistance tests have been independently undertaken by Lucideon Ltd using the pendulum and inclined platform test.

Inclined Platform Test DIN 51130:2010

	Operator 1 Angle of Inclination	Operator 2 Angle of Inclination
1	30.6°	29.0°
2	29.9°	28.9°
3	29.6°	28.9°

Average of Six Shod Results (Corrected): 29.5°

Category: R12

The critical angle at which a test person reaches the limit of safe walking on an inclined plane is used as a measure of slip resistance.

Pendulum Test BS 7976-2:2002

PTV Average Dry Value: 64
PTV Average Wet Value: 58

The energy absorbed by contact with the pre-set distance is read from a physical scale by a pointer that follows the overswing of the pendulum arm. 12 results are averaged to give the final pendulum number which is used to categorise the tile surface.

The UK slip resistance group recommends the following guidelines;.

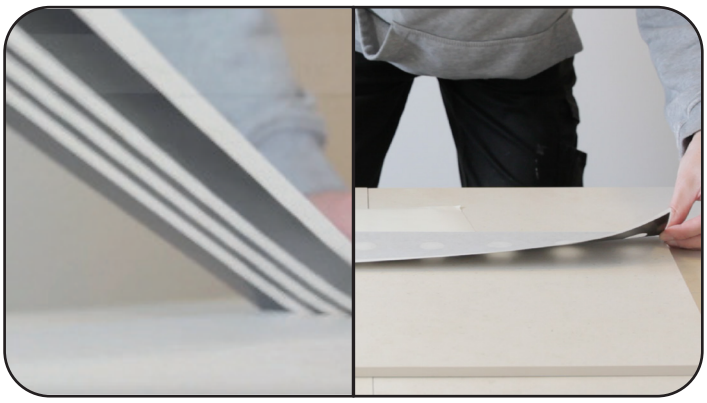
PTV	Slip Potential
0-24	High
25-35	Moderate
36+	**Low**

User Guide

Clean the surface using the 3m Surface Cleaning Solution and allow to dry

Measure out the stencil, making sure to leave a little bit extra at the end so that it can be easily removed at the later stages and then trim the stencil

Peel off the underside of the stencil and lay it into place



Smooth out the stencil using the Applicator Spreader

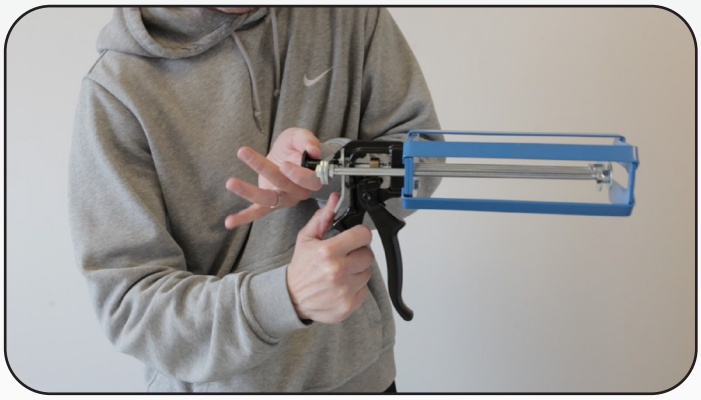
Carefully peel off the backing film

Remove the metal clip

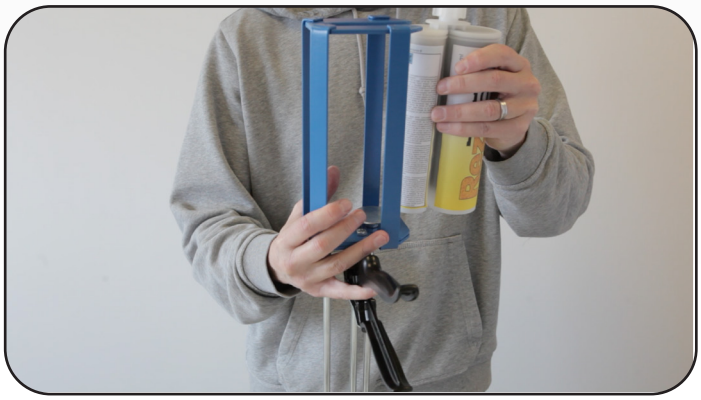
Unscrew the plastic cover

Remove the green bung, push in the nozzle and screw the plastic cover back on over the top of the nozzle

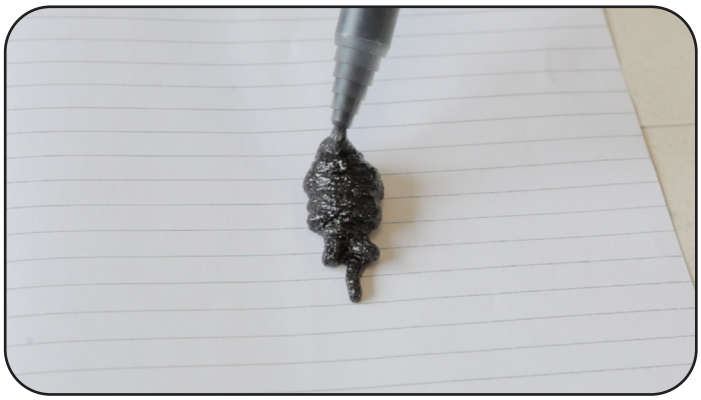
Release the locking mechanism and pull back the rods



Insert the resin cartridges

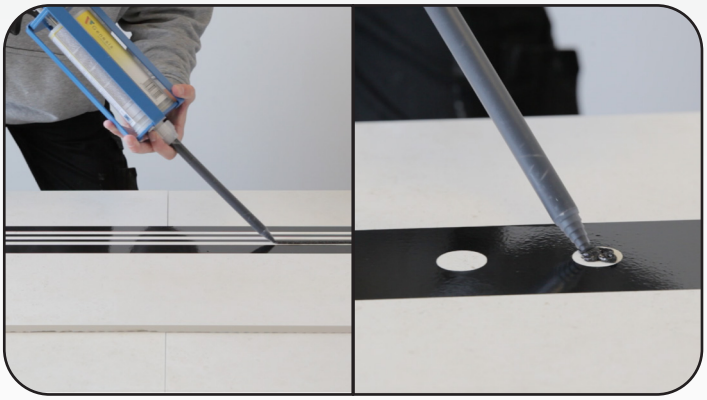


Dispose of the first application to give the resin chance to mix

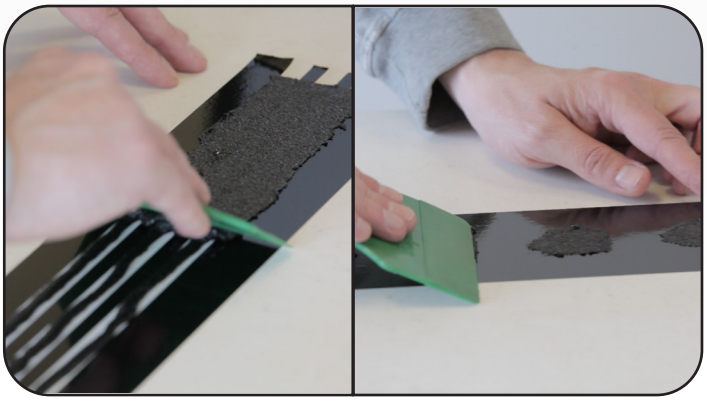


Carefully peel off the backing film

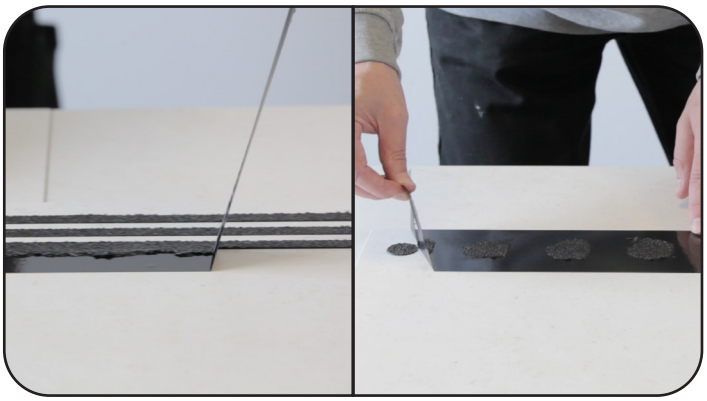
Apply the resin to the stencil



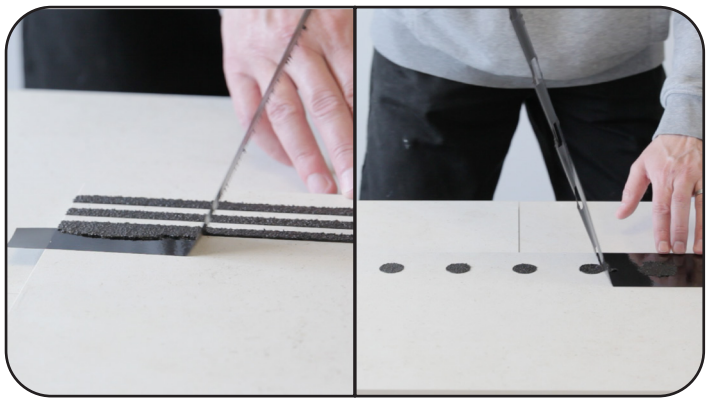
Spread the resin evenly, making sure that all the stencil strips are covered



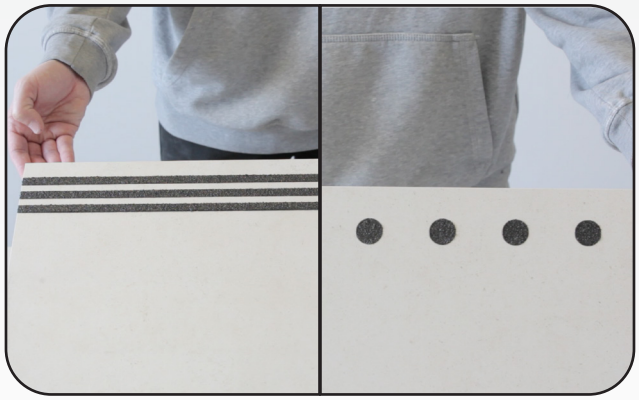
Peel back the stencil strips

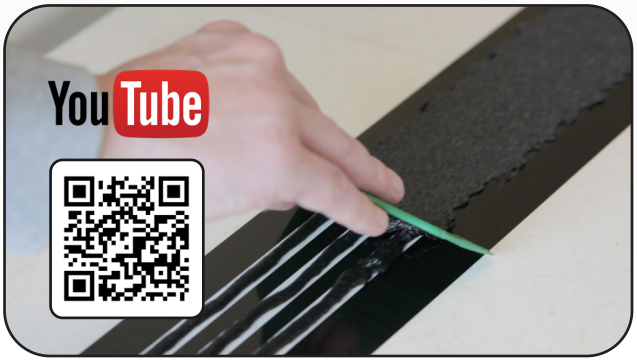


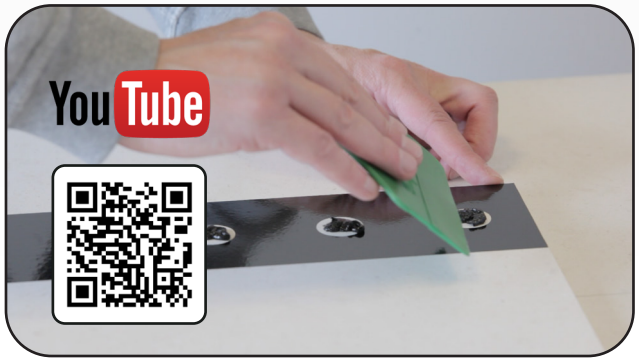
Try not to get the resin on your skin when removing the stencil, if you do, remove it right away



Allow to cure for 60 - 90 minutes before allowing footfall onto the surface







Cleaning & Maintenance

The following procedures are recommended for the cleaning and maintenance of the RezTred® anti-slip system:

One of the many advantages of using RezTred® as opposed to many other anti-slip products is its ease of maintenance and longevity.

The cleaning of RezTred® is primarily determined by the surface that its applied to.

In most situations RezTred® can be brushed to remove dust etc. or washed with warm soapy water and a medium stiff brush if very dirty. Obviously if the surface that RezTred® is applied to is unsuitable for soap and water an alternative cleaning method must be applied as per the recommendations of the surface supplier.

One of the points to remember when cleaning RezTred® is that it is applied to form an anti-slip profile, so buffing, polishing or applying any sort of sealer or coating may affect its anti-slip performance and cause damage.

Cleaning RezTred® that has been applied to exterior areas, which are cleaned by pressure washing, is not a problem as RezTred® can be pressure washed at the same time. When using the pressure washer do not concentrate on one spot or on the sides of the strips

Snow should be brushed off the area where RezTred® has been applied. Salt and De-icers can be used to remove ice on surfaces that will not be affected by this treatment. Under no circumstances should ice or snow be picked or shovelled off RezTred®, as this could damage the insert

In the unlikely event that RezTred® is damaged it can easily be repaired as follows; clean the damaged area with RezTred® cleaner, apply stencil tape to form the required profile and reapply RezTred® over damaged area. RezTred® will bond to itself so small repairs can be done easily.

Regular maintenance will prevent the build up of algae growth, but should this happen, clean the RezTred® with a very mild bleach solution, provided this will not affect the surface the RezTred® has been applied to. Note, strong acid cleaners and strong bleach may discolour your insert.

It is essential to carry out a small inconspicuous test area with any new cleaning or maintenance procedure.

Case Studies

Mumbai Palace

Project Specifications

Product Specified: RezTred® R11

Colour Specified: Black / White

Sector: Hospitality

Project Description

Our resin systems are used by the prestigious Mumbai Palace, India. The system is extremely versatile ranging from tactile step treads through to bathroom step outs and wet room usage.

O2 Arena London

Project Specifications

Product Specified: RezTred® R11 Anti Slip Resin Inserts

Colour Specified: Black

Sector: Stadium

Project Description

Our patented system was installed on-site to provide a convenient DDA / Equality Act part M anti-slip / visual treatment.

Case Studies

Southern House London

Project Specifications

Product Specified: RezTred® Anti-Slip Kit

Colour Specified: Black

Sector: Public

Project Description

Another top quality RezTred® anti-slip installation completed at Southern House, London.

Installed directly to the textured Marshalls conservation kerb, our anti-slip system provides a long lasting, visual, anti-slip profile to a problematic area.

The resin looks extremely aesthetically pleasing and blends in perfectly with it's surroundings. R12 anti-slip resistance is in full effect here.

Manchester Art Gallery

Project Specifications

Product Specified: NRES225D

Colour Specified: Light Grey

Sector: Art

Project Description

Manchester Art Gallery urgently needed an anti-slip system installing on their glass walkway. The RezTred® 40mm dia. discs were installed on site in an offset pattern.

The colour of choice was a light grey so that they blended in with their surroundings whilst providing an R12 level of anti-slip - perfect!

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