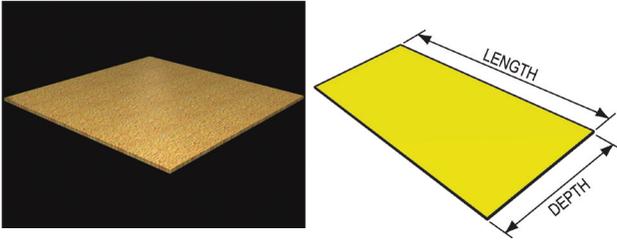


FRP ANTI SLIP Technical Data

SIZES AVAILABLE

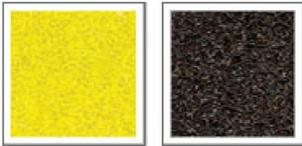
FRP Anti Slip is offered in thin, flat, flexible sheets in standard size of 1.2m x 2.4m. For larger runs custom sizing can be accommodated.



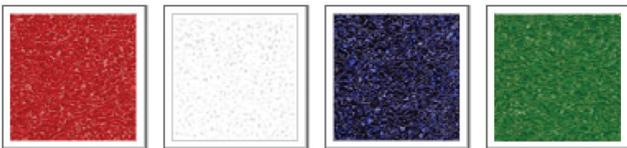
The thickness of FRP Anti Slip will vary dependent upon the grit texture specified, the coarser the grit – the thicker the cover, and will range between 2mm and 3mm from the base of the FRP Anti Slip to the points of imbedded grit.

COLOURS AVAILABLE

FRP Anti Slip is available in two 'in stock' standard colours, SAFETY YELLOW and BLACK.



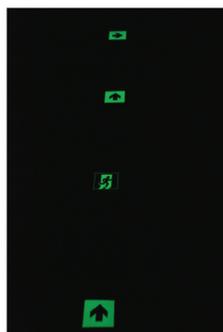
Additionally other 'on request' colours are available, RED, WHITE, GREEN, BLUE and ORANGE.



Glow in the dark capable FRP Anti Slip is available. Permanently adhered directional and safety signage can be included. Signage will look off white to green in daylight and glow bright green/yellow in darkness.



In Daylight



In Darkness

GRADES AVAILABLE

The super tough abrasive grit used to form the high traction surface on FRP Anti Slip is one of the hardest compounds known to man. Fused Alumina Grit is bound within the glass reinforced body of the FRP Anti Slip and presents a top surface with almost diamond hard characteristics.

MOHS scale comparison

Diamond	10
Silica Carbide	9.7
Fused Alumina	9.4
Hard Quartz	7.0
Steel	6.0

A range of grit sizes are available which are categorized in the following six grades, together with typical applications:

- **FINE** – Commercial buildings, swimming pools, vehicle applications.
- **INDUSTRIAL** – For most industrial applications.

As different manufacturers have different names for each grade of their anti slip material, the following comparisons of FRP Anti Slip grading have been used.

Grade	U.S. Grading	Microns (average)
Fine	60 mesh	250
Industrial	16 mesh	356

PHYSICAL PROPERTIES – FRP

FRP Anti Slip is manufactured entirely by hand in a one-step manufacturing process then trimmed and cut to size.

Uniquely it remains permanently flexible and able to form over quite tight compound curves. By incorporating all of the separate elements of the finished product into one seamless fibreglass composite material we are able to build the strongest and most durable product available on today's market. The general term for the way we make our product is **Fibreglass Reinforced Plastic** or FRP for short, or more commonly called *fibreglass*.

FRP doesn't dent, corrode, rot, delaminate, support bacteria and has a high strength to weight ratio being several times higher than steel on a weight to weight bases. It demonstrates a very high resistance to UV and other environmental conditions is highly resistant to chemical attack and has an indefinite lifespan.

The particular base resin used also features extremely good fire retardant and low smoke emission characteristics.

Almost all other stair nosing and floor plate manufacturers adopt a layering or bonding method where an anti-slip coating is bonded to a rigid pre-formed base such as steel or pultruded material.

This method invariably sets up a weak point where the two dissimilar components, the top coating and the base material, meet. This weak point will be further strained by stress set up within the product through movement associated with normal use or thermal expansion and contraction. Such a bonding method also has a low tolerance to impact and typically the top coating will peel away from damaged areas.

The products you receive are constructed from a base mix of fire retardant polyester resins interspersed with immensely strong interwoven glass fibre. The colour pigmentation is floated right through the full thickness of the materials so that it is impossible to wear the colour off and become unsightly.

The fused alumina anti-slip grain is then forced into the base mix under pressure while it is still wet, followed by a final resin layer laid over the top of it all. This entire composite mix is then cured at optimum temperatures until fully hard.



No layering, no bonding, no weak spots, just one immensely strong composite whole.

With these products the anti-slip material cannot be knocked out as happens with over-coating methods, no peel back or chipping can occur around localized damage points, the colour cannot be work off, flexing and movement will have no effect on them and with the FRP material, there is a 100% guarantee that it cannot rust or corrode. You simply get the toughest, most durable and longest lasting nosing's available anywhere in the world.

INSTALLATION

On-Site Cutting

FRP Anti Slip is very easily shaped or cut to size should this be required. We recommend using a dry cut diamond blade operated in a hand held 100mm angle grinder.

As dust and loose chips will be generated through the cutting process, eye protection and dust masks should be worn.

No edge sealing is required where the product has been cut.

FRP Anti Slip is intended to be glue fixed to smooth surfaces using screedable glues as used for PVC vinyl flooring.

Ensure that both the floor surface and the smooth underside of **FRP Anti Slip** are clean, dry and free of dust and loose material. Locate **FRP Anti Slip** in the correct location and mark on the floor around the perimeter of the **FRP Anti Slip**. Turn the **FRP Anti Slip** upside down and apply the sheet flooring adhesive according to the manufacturer's directions. When ready, turn the **FRP Anti Slip** over and locate in the marked location, roll lightly to ensure a full bond and allow a full curing time.

MAINTENANCE

FRP Anti Slip can be easily maintained to preserve the smart appearance and effective non-slip qualities.

Because of the extreme hardness and chemical resistance of **FRP Anti Slip**, cleaning can be effected with medium pressure steam or water, degreasers and detergents. Stubborn soils can be removed with a stiff deck broom. Strong solvents should be avoided as they may soften or discolour the FRP material. Do not use scrapers or wire brushes.

TECHNICAL SPECIFICATIONS

Slip Resistance

The coefficient of friction (COF) is a number which represents the friction between two surfaces. Friction is of course the resistance an object encounters in moving over another, so when we quote a COF figure for our ant-slip products we are quoting the measure of our products ability to provide safe traction and thereby prevent slips and falls.

Different countries and indeed different agencies within a country adopt and rely on different testing apparatus to gain COF results. **FRP Anti Slip** has had test results produced from the three internationally most widely accepted slip meters:

- The Brungraber Mark II
- The English XL VIT
- The British Pendulum Slip Tester

FRP Anti Slip industrial safety products have been tested with the above apparatus and found to comply with and exceed requirements the following Standards:

- ASTM F1677
- ASTM F1679
- NFPA 1901
- DIN 51130
- AS/NZS 4586

RESISTANCE TO FIRE

Independent laboratory testing has confirmed that **FRP Anti Slip** products will exhibit the following flammability characteristics:

- Rated Class 2, when tested according to BS 476, Part 7
- Rated self-extinguishing when tested in accordance to ASTM D 635
- Rated indices when tested according to AS 1530-Part 3, 1976

Ignitability Index	15
Spread of Flame Index	9
Heat Evolved Index	8
Smoke Developed Index	8