



Technical Specifications

GRS Rapid Resin

Readyfloor Pty Ltd - Accredited GRS (German Resin Systems) Installer

Office:

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GRS Rapid Resin - Technical info

The figures provided in the table below are typical properties of our GRS Rapid Resin systems achieved in controlled laboratory tests that were conducted at 20°C and at 50% Relative Humidity. For full system technical data, please contact your local GRS (German Resin Systems) office or alternatively visit us online.

GRS System	GRS Fleck	GRS Quartz	GRS Crystal	GRS Rapid Transit	GRS Rapid Transit Tactiles
System Thickness	2-4mm	2-4mm	2-4mm	2-4mm	Tile: 5mm Blister: 10mm
Impact Resistance (ISO 6272)	1kg > 1.8m 2kg > 1.5m	1kg > 1.8m 2kg > 1.5m	1kg > 1.8m 2kg > 1.5m	1kg > 1.8m 2kg > 1.5m	1kg > 1.8m 2kg > 1.5m
Abrasion Resistance (BS 8204-2)	Class AR2	Class AR1	Class AR2	Class AR2	Class AR0.5
Temperature Resistance (Sustained)	Up to 50°C	Up to 70°C	Up to 50°C	Up to 50°C	Up to 60°C
Temperature Resistance (Intermittent)	Up to 80°C	Up to 80°C	Up to 80°C	Up to 80°C	Up to 80°C
Permeability (Nil-Karsten Test)	Impermeable	Impermeable	Impermeable	Impermeable	Impermeable
Bond Strength (Primed Concrete)	>1.5 N/mm ²	>1.5 N/mm ²	>1.5 N/mm ²	>1.5 N/mm ²	>1.5 N/mm ²
Compressive Strength (DIN 1164)	>45 N/mm ²	>60 N/mm ²	>45 N/mm ²	>40 N/mm ²	>45 N/mm ²
FeRFA Type (BS 8204-6)	Type 4	Type 6	Type 4	Type 4	-
Slip Resistance* (BS 7976-2)	Dry >40	Dry >40	Dry >40	Dry >40	Dry >40
Speed of Cure** (per layer)	Traffic: 1hr Chem: 1hr	Traffic: 1hr Chem: 1hr	Traffic: 1hr Chem: 1hr	Traffic: 1hr Chem: 1hr	Traffic: 2hr Chem: 2hr
Fire Resistance	Class 2 (Indicative)	Class 2 (Indicative)	Class 2 (Indicative)	L.U.L Section 12	L.U.L Section 12

* The slipperiness of flooring materials can change significantly due to the installation process, after short periods of use, due to inappropriate maintenance or longer-term wear. To meet slip resistance value requirements for wet conditions, textured systems are recommended. Please contact a Technical Advisor at your local GRS (German Resin Systems) office for further details and specifications.

** Cure at ambient temperatures in the range 0°C to +35°C can be achieved by altering the quantity of catalyst used. For applications below 0°C, please contact a Technical Advisor at your local GRS (German Resin Systems) office.

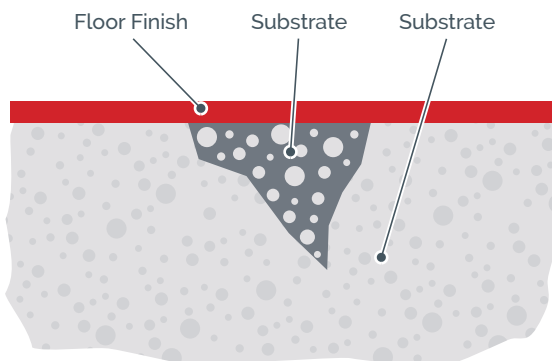
Chemical Resistance

Our GRS Rapid Resin systems have been designed to offer exceptional resistance against a wide variety of chemicals and substances used across a broad range of working environments, including a number of acids, alkalis, oils, salts and other aggressive media. The following list provides a selection of chemicals and substances that are fully resistant with continuous contact. A full GRS Rapid Resin chemical resistance chart is available upon request.

Acids	Alkalis	Organic	Other	
Acetic Acid 25%	Caustic Soda	Petroleum	Crude Oil	Vinegar
Hydrochloric Acid 37%	Potassium Hydroxide 50%	Formaldehyde 37%	Calcium Chloride	Wine
Lactic Acid 90%	Lime Milk	Diesel	Bleach	Beer
Nitric Acid 10%	Sodium Hydroxide 30%	Kerosene	Blood	Ammonia
Sulphuric Acid 50%	Ammonia 10%	White Spirit	Hydrogen Peroxide 30%	Urine
Tartaric Acid 50%	Aluminium Hydroxide	Turpentine	Ammonium Chloride	Antifreeze

Substrate repair

GRS Patch Mortar is a fast and durable acrylic resin-based repair mortar that provides a fully hardened surface after just 30 minutes. GRS Patch Mortar is predominantly used to mend damage, holes and imperfections in concrete substrates and can be used with machine bases and joint arises as well as both drill and bolt holes. It can be installed on cementitious substrates that have a relative humidity of up to 97% (to BS 8204) and at heat temperatures ranging from -20°C through to 30°C*.



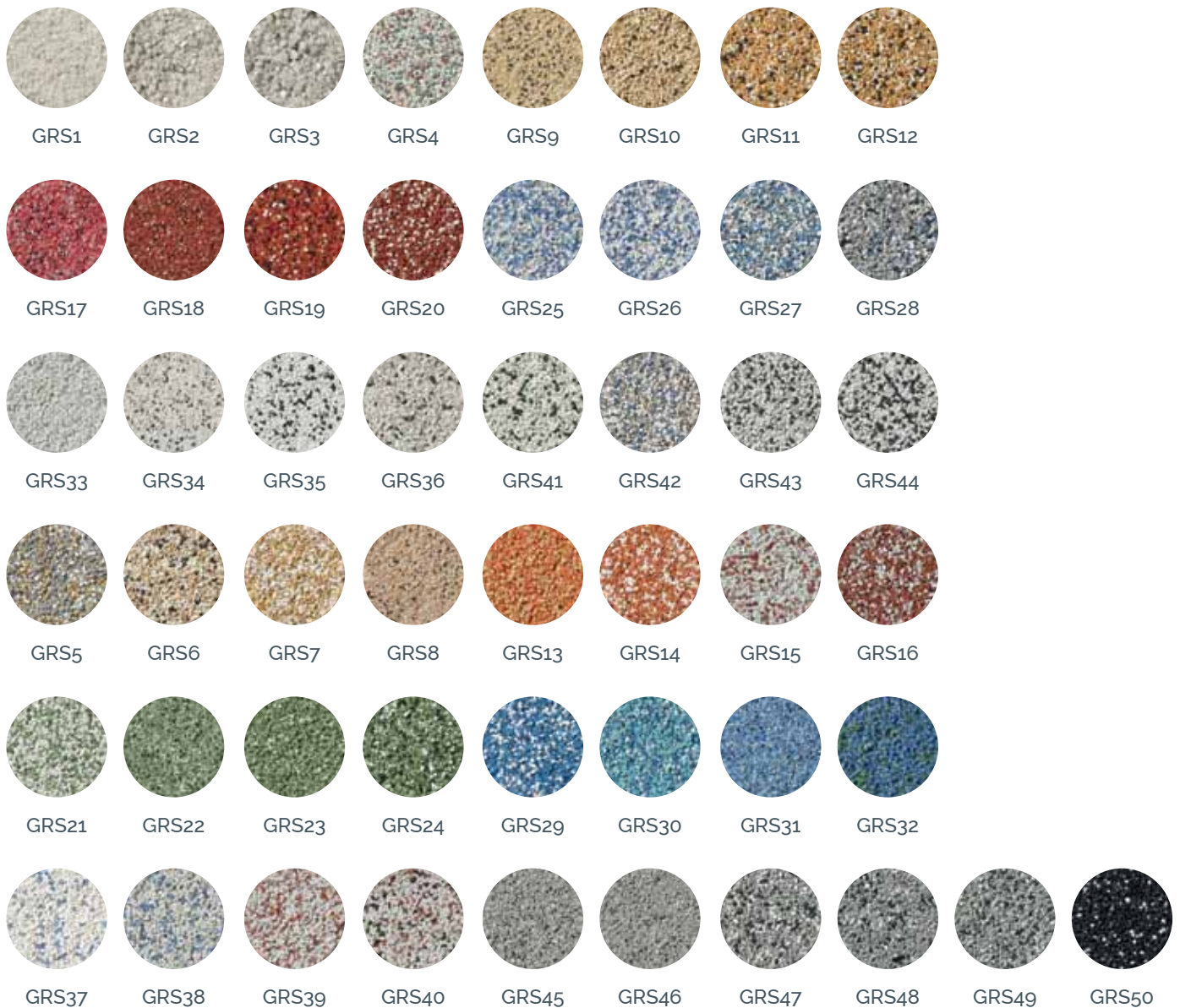
Thickness**	6 - 25mm
Cure Time (20°C)	60 - 90 Minutes
Density (20°C)	2.1 kg/l (DIN 53 479)
Compressive Strength	74.5 N/mm ² (DIN 1164)
Tensile Strength	27 N/mm ² (DIN 1164)

* Two grades of GRS Patch Mortar are available depending on the application temperature. For application temperatures below 0°C, use GRS Patch Mortar (low temperature grade, 0 to -20°C). For application temperatures above 0°C, use GRS Patch Mortar (standard grade, 0 to +30°C).

** Product ready to use for thicknesses 6-25mm (for layer thicknesses greater than 25mm, additional aggregates may be added).

Colours

With an almost limitless palette of vibrant colours available, GRS Rapid Resin offers you the chance to create a truly one-of-a-kind floor finish. Create your own blend of coloured, glitter and metallic floor flakes or coloured quartz aggregates to effortlessly compliment the interior design of your environment. Use our specialist colour service to match your brand-new GRS Rapid Resin floor to existing terrazzo floor tiles or other adjacent floor finishes.





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