



RAND
POLYPRODUCTS PVT. LTD.

 **FLOORGUARD**



Durable Epoxy Overlays for Resilient Substrate Protection



RPPL's Floorguard series of Epoxy floor overlays yield in seamless and highly durable floor finishes, with superior aesthetics as well as highly resilient protection of the substrate.

Flooring represents the largest component in any interior scheme after the walls. At RAND, we take extra initiative to offer an excellent platform to be able to deliver floor overlays that are versatile in their end-use, be it Industrial floors, commercial floors or decorative floors for residential interiors.

Our floor overlays provide a complete flooring solutions to match the needs of our clients. Whether you require chemical resistance, abrasion resistance, resistance to heavy loads, ease of maintenance, aesthetics or all of the above, we will be able to provide a satisfying solution for you.

Our FloorGuard portfolio consists of the following overlay solutions – Floorguard SL :

Self-levelling glossy Epoxy flooring.

Floorguard GR :

Self-levelling Epoxy flooring with a textured, aesthetic finish.

Floorguard ESD :

Self-levelling Epoxy flooring that enables electro-static discharge through the floor.

All our floor coating systems are joint-free, delivering a seamless finish with no cracks or crevices to harbor dust, dirt and bacteria. This makes the surfaces user-friendly to clean and maintain and ensures hygiene between wash cycles.



Technical Profile -

THERMAL RESISTANCE	
	Softens over 60°C
WATER PERMEABILITY	
	Nil – impermeable (Karsten Test)
ABRASION RESISTANCE	
ASTM D 4060	39.4 mgm loss/ 1000 cycles 1kg load, C17 wheel
TENSILE STRENGTH	
ASTM D 638	16 MPa
COMPRESSIVE STRENGTH	
ASTM C 579	58MPa
FLEXURAL STRENGTH	
ASTM D 790	36 MPa
% ELONGATION	
ASTM D 638	5.30 %
CHEMICAL RESISTANCE	
ASTM D 1308	Passes
BOND STRENGTH	
	Greater than cohesive strength on 25 Mpa concrete

SPEED OF CURE	10°C	20°C	30°C
Tack Free	24 hrs	18 hrs	12 hrs
Light Traffic	36 hrs	30 hrs	24 hrs
Full Cure	10 days	7 days	6 days

These values are typical properties achieved in laboratory tests, done at 25 (Deg) C and at 50% relative humidity. Please contact our Technical Team for further details and specifications.



Floorguard SL:

Floorguard SL is a self-levelling epoxy flooring overlay, that results in a smooth, seamless floor with a glossy surface finish. This high-performance epoxy flooring is suitable for medium to heavy duty movement in Engineering shops, Factories and Warehouses; as well as hygienic floor requirements in Pharmaceutical clear rooms, Paint shops, F&B units and Hospital OT's.

Product Attributes :



High Chemical Resistance -

Protects against a majority of acids, alkalis and oils.



Abrasion Resistant -

Hard-wearing, the floor is suitable for medium to heavy traffic load.



Seamless and Hygienic -

The seamless finish results in a dust-free environment



Low Maintenance -

High durability ensures low wear and tear than standard substrates.



Solvent Free -

Low in VOC's, the cured floor is environment friendly



Easy to Wash -

The high gloss ensures easy washability of the flooring

Sample Shades:



Charcoal



Yellow



Steel Blue



Mid Blue



Light Green



Dark Green



Chilli Red



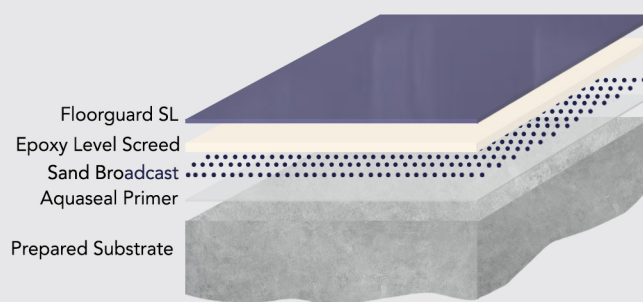
Light Grey

The above shades are representations of some std. shades, shade matching to RAL shades can be done depending on the area of the floor.

Model Specification:

System	Floorguard SL
Finish	High gloss
Thickness	2mm to 5mm DFT, depending on end use

Substrate preparation must be done in accordance with manufacturer's specifications and instructions.



Products included in System

Primer	AquaSeal
Levelling Screed	Floorguard SC
Top Coat	Floorguard SL

Floorguard SL coverage – 0.85 Sqm/kg for 1 mm overlay
Detailed application Instructions are available on request.



Floorguard GR:

Floorguard GR is a self-levelling granular epoxy flooring system, that results in a textured glossy with a seamless floor overlay. In addition to the benefits provided by a standard self-levelling epoxy flooring, Floorguard GR adds additional aesthetic value to the flooring overlay.

The addition of finely suspended granules in the mix ensures better abrasion resistance and longer-durability in terms of wear and tear of the glossy-finish on the flooring surface.

This high-performance, elegant epoxy flooring is suitable for commercial spaces like hotel lobbies, airports, office spaces in addition to factories, warehouses and plants.

Product Attributes :



High Chemical Resistance -

Protects against a majority of acids, alkalis and oils.



Attractive Finish -

The exposed granules add an exquisite aesthetic value to the floor finish.



Abrasion Resistant -

Hard-wearing, the floor is suitable for medium to heavy traffic load.



Seamless and Hygienic -

The seamless finish results in a dust-free environment



Low Maintenance -

High durability ensures lower wear and tear than standard substrates.



Solvent Free -

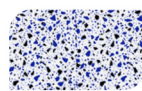
Low in VOC's, the cured floor is environment friendly



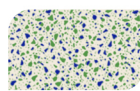
Easy to Wash -

The high gloss ensures easy washability of the flooring

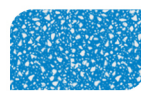
Sample Shades:



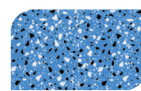
Pearl White



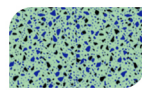
Cream



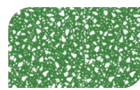
Steel Blue



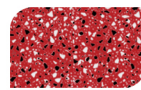
Light Blue



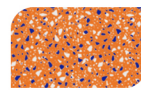
Light Green



Dark Green



Chilli Red



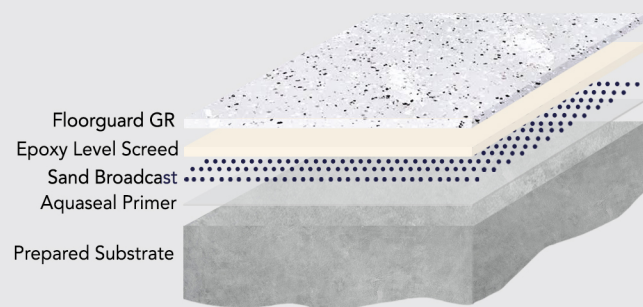
Orange

The above shades are representations of some std. shades, shade matching to RAL shades can be done depending on the area of the floor.

Model Specification:

System	Floorguard GR
Finish	Glossy, textured surface
Thickness	4mm DFT, 2 mm top coat with granules

Substrate preparation must be done in accordance with manufacturer's specifications and instructions.



Products included in System

Primer	AquaSeal
Levelling Screed	Floorguard SC
Top Coat	Floorguard GR

Floorguard GR coverage – 0.4 Sqm/kg for 2 mm top-coat overlay
Detailed application Instructions are available on request.



Floorguard ESD:

Floorguard ESD is a self-levelling epoxy flooring system, that provides static discharge of electrical charge through the flooring network onto the grounded earth. The flooring conforms to all standards electrical conductivity requirements. The top-coat of Floorguard ESD is reinforced with a high-quality conductive additive, that is emulsified as part of the homogenous system; to give a uniform static discharge across the flooring surface.

Product Attributes :



Anti-Static -

Meets ASTM F150 and IEC 61340-5-1 requirements



High Chemical Resistance -

Protects against a majority of acids, alkalis and oils.



Abrasion Resistant -

Hard-wearing, the floor is suitable for medium to heavy traffic load.



Seamless and Hygienic -

The seamless finish results in a dust-free environment



Low Maintenance -

High durability ensures lower wear and tear than standard substrates.



Easy to Wash -

The high gloss ensures easy washability of the flooring

Sample Shades:



Charcoal



Tele Grey



Steel Blue



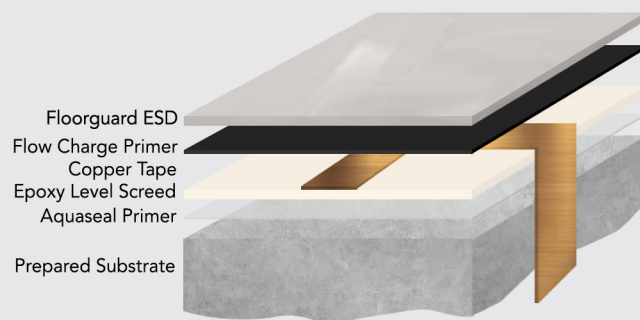
Cobalt Blue

The above shades are representations of some std. shades, shade matching to RAL shades can be done depending on the area of the floor.

Model Specification:

System	Floorguard ESD
Finish	Glossy surface
Thickness	3-4mm DFT, 1-2 mm top coat

Substrate preparation must be done in accordance with manufacturer's specifications and instructions.



Products included in System

Base Primer	AquaSeal
Levelling Screed	Floorguard SC
Conductive Layer	Copper Tape
Conductive Primer	FlowCharge
Top Coat	Floorguard ESD

Floorguard GR coverage – 0.4 Sqm/kg for 2 mm top-coat overlay
Detailed application Instructions are available on request.

Substrate Pre-requisites:

Well-levelled and finished concrete substrate, with a recommended strength of 20 -25 MPa. Floor should be well levelled with minimum possible undulations. Substrate should be free from rising damp and ground water pressure and dry up to 75% RH.

Chemical Resistance:

Most diluted and concentrated organic acids such as, Acetic acid, Lactic Acid, Oleic Acid and Citric Acid as commonly found in the food industry; diluted and concentrated acids such as Hydrochloric, Nitric, Phosphoric, Sulphuric acid, etc.; diluted and concentrated alkalis, such as Sodium Hydroxide to 50% concentration

It also resists animal fats and vegetable oils, sugars, flavorings and essences, mineral oils, kerosene, gasoline and brake fluids and a wide range of organic solvents including Methanol, Xylene, Ethers and Ketones

Note: Some staining or discoloration may occur with some chemicals depending upon the nature of the spillage and the standards of housekeeping employed.

Environmental Considerations:

The finished system is assessed as non-hazardous to health and the environment. The long service life and seamless surface reduces the need for repairs, maintenance and cleaning. Environmental and health considerations are controlled during manufacture by RPPL and during application by our fully trained and experienced contractors

Aftercare and Maintenance:

Clean regularly using a rotary scrubber and a mild floor cleaner/detergent. Use respective cleaning-kits in case of chemical spillages to avoid prolonged exposure to chemicals.

For further details on the product, please contact us at

Rand Polyproducts Pvt. Ltd.,

Gat No. 3a/2, Old Gat No. 1649,
Village Ghotawade Village, Tal. Mulshi,
Dist. Pune, PIN - 412 115.

Contact:

Sales/Admin 020-6790 8609/10
Technical 020-6790 8621

Email:

rand@randpoly.in

NOTICE: All information contained in this document is from research and testing conducted in RPPL Laboratory and third-party test facilities for specific characteristics. RPPL guarantees conformity of its products per specifications listed in this document, but cannot guarantee compatibility with a particular application. It is the responsibility of the user to confirm suitability of RPPL products under their own conditions prior to commencing usage for the intended application. RPPL disclaims all responsibility for damage from any incident resulting from the usage of its products. RPPL responsibility will be strictly limited to replacement of products found non-compliant with stated specifications and/or reimbursement in lieu of the same.