



New Guard Coatings Group

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This information is not exhaustive and it is the user's responsibility to ensure that this data sheet is the most current by contacting their local New Guard Coatings Group branch prior to using the coating/product.

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Guard SPU - Single Pack Polyurethane



Technical Data Sheet

Product Description:

A high quality single pack polyurethane, for use as a durable floor coating (light-medium traffic) and as a topcoat onto suitably primed surfaces. As a single component product this polyurethane does not contain isocyanate.

Typical Uses:

Can be used either as a single pack floor coating onto suitably prepared concrete, or onto floors previously coated with Guard UBP-2k. Suitable for light to medium traffic with decent resistance to oil spillages, providing they are not left to pool.

Can also be used as a topcoat onto suitably prepared / primed surfaces. Provides slightly better gloss and colour retention over traditional alkyd enamel topcoats, as well as providing a degree of chemical resistance.

Practical Information:

Colours	Full tintable colour range. All RAL & BS4800 colours and specials on request
Pack Size	5 litre (Nominal Volume)
Gloss Level	Gloss
Resin Type	Polyurethane
Components	Single Component
Generic Type	Solvent-based

Technical Information:

Theoretical Spreading Rate (approx)	4.5m ² per litre based on 90µm dft
Volume Solids (approx)	45%
Dry Film Thickness (DFT)	90µm
Wet Film Thickness (WFT)	200µm
Flash Point	40°C
VOC Content	430gms/litre
Temperature Resistance	120°C

Surface Preparation:

Ensure surfaces are clean, dry and free from grease and other contamination before coating. Thoroughly degrease and where applicable, abrade to remove rust and promote good adhesion of the coating. For optimum corrosion protection, mild steel should be blast cleaned to Sa2.5. Complex structures may be more effectively cleaned by HPWJ (high pressure water jetting).

Mixing:

Mix Ratio:	Not applicable.
Mixing Instructions:	This material is a one-component coating and should always be mixed thoroughly with an agitator before application.
Pot Life:	Not applicable.

Application Methods:

Brush	Yes	On new concrete thin the first coat 4:1. Two finishing coats should be applied evenly. Allow to dry 16 hours between the two coats.
Roller	Yes	Same as above
Conventional Spray	Yes	For steel, not floors
Airless Spray	No	Not optimised
Air Assisted Airless Spray	No	

For further information and guidance on application, please speak with our technical team.

Solvents:

Thinning: Guard Solvent F
Cleaning: Guard Solvent F

Drying and Curing Time:

Touch Dry	2 hours
Hard Dry	16 hours
Full Cure	48 hours
Recoatable	Min 16 hours, Max 7 days

Drying times are based on temperatures of 20°C, lower temperatures will increase drying times. Please speak with our technical team before elevating temperatures or attempting to force cure any of our products unless already stated. Shop conditions such as having good airflow will optimise curing.

Compatibility:

Suitable for application onto Guard EP and Guard GIP as single pack zinc phosphate primers.

Alternatively suitable for application onto Guard ETC and Guard ETC-2K, etch primers.

Cleaning Information:

Once painting has been completed, clean all equipment with abovementioned cleaning solvent. Spray equipment should be appropriately flushed through for 3-5 minutes (returning unused paint to the tin, unless thinned which should be stored in a separate tin) before replacing any used solvent with clean solvent to leave in the pump, gun and lines.

Storage & Shelf-Life:

Unopened tins should be stored in a cool dry place between the temperatures of 5° and 25°C – better storage conditions will likely extend the shelf-life of the material. Always stir thoroughly before re-use.

Product has a shelf life of 12 months as standard from the date of manufacture. Once opened tins should have the lid fitted tightly when not in use. Please speak with us before using material which is past it's standard shelf-life as certain materials may need re-certifying before use.

Safety Precautions:

To avoid the risk of spillage always store and transport in an upright secure position. Materials are hazardous and can also be flammable therefore appropriate precautionary measures must be taken including the use of gloves, glasses and recommended P.P.E in accordance with the material safety data sheets (MSDS).

Review

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Important Notes & Disclaimer:

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