



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 EPX-2k - Two Pack Epoxy



Technical Data Sheet

Product Description:

Heavy duty protective coating for concrete and steel. Provides long term water and chemical resistance. Epoxy coating chalk on exterior exposure. Temperatures of substrate must be at least 3°C above dewpoint. Drying will be retarded at temperatures below 10°C.

Typical Uses:

Ideal coating for the protection of floors and metal stairways used in difficult conditions. Ideal for warehouses, factories and public event spaces.

Practical Information:

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

Technical Information:

Theoretical Spreading Rate (approx)	10m ² per litre based on 40µm dft
Volume Solids (approx)	50%
Dry Film Thickness (DFT)	60µm
Wet Film Thickness (WFT)	120µm
Flash Point	22-32°C
VOC Content	460g/l (Gloss base), 430g/l (Satin base)
Temperature Resistance	180°C

Surface Preparation:

Always ensure surfaces are clean, dry and free from grease and other contamination before coating.

New concrete floors - ideally floor should be shot blasted or mechanically grinded, though as a minimum must be thoroughly cleaned and degreased, and the concrete itself must then be fully cured, sound, dry and all surface dust and particles removed.

Existing concrete floors – thoroughly remove all dirt, oil, grease and any other contaminants on the surface, ideally by means of shot blasting or mechanical grinding. If this is not possible it must be copiously cleaned, degreased and abraded with all loose chippings and dust completely removed. If a previous coating cannot be totally removed, please speak with our technical team who will advise on carrying out a small trial area to ensure compatibility, or recommend a suitable primer for cohesion.

Surface Preparation (continued):

Steel – not optimised as a primer onto steel due to product not containing any anti-corrosive components. Please speak to our team if you require an anti-corrosive product, optimised as a primer onto steel. However, if still applied direct to steel, any protection will only come from the barrier effect – in these instances, surface must be cleaned, dried and free from grease and other contamination before application, with the surface abraded to a minimum of ST2 (mild steel) or by means of hand and power tools.

On top of existing coating (as a build coat / intermediate coat) – please speak to our technical team to understand whether product will be compatible onto any existing coating. They may recommend that you carry out a trial area or an alternative product to ensure cohesion. As a minimum surface must be thoroughly cleaned and lightly abraded.

Mixing:

Mix Ratio:	4:1
Mixing Instructions:	Mix thoroughly with a mechanical aggregator for at least 3 minutes prior to application of the product, to ensure both the base and activator (component A + component B) are completely mixed together.
Pot Life:	6 hours at 20°C

Application Methods:

Brush	Yes	May Require Thinner
Roller	Yes	May Require Thinner
Conventional Spray	Yes	May Require Thinner
Airless Spray	Yes	May Require Thinner
Air Assisted Airless Spray	Yes	May Require Thinner

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

Several coats may be required to achieve required DFTs if applying by brush or roller.

When applied direct onto suitable concrete floors, highlight recommend a first coated thinned by about 20% with Guard Solvent C, to take up the porosity of the floor.

Solvents:

Thinning:	Guard Solvent C
Cleaning:	Guard Solvent C

Drying and Curing Time:

Touch Dry	40-60 minutes
Hard Dry	6 hours
Full Cure	24-28 hours
Recoatable	12-24 hours

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:

Product is designed to be applied either onto a bare concrete floor or as a build coat / intermediate coat on steel. If being applied over an existing coating (on either floors or steel) please speak with our technical team, as we may recommend the application of an adhesion coat first such as Guard UBP-2k, or a zinc phosphate primer to give anti-corrosive property such as Guard EPZ-2k.

Product can also be overcoated with a second coat of itself (clean, degrease and abrade surface first), a two pack topcoat such as Guard MSP-2k, or single component topcoats such as Guard SPU or Guard FES.

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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