

Cleargard

High Performance Anti-graffiti Coating

Description

A non-sacrificial, environmentally friendly, waterborne, two component polyurethane coating based on polyol dispersions which exceed the performance levels of typical solvent based systems. Cleargard offers excellent UV stability and is resistant to solvent cleaners. It also contains a siloxane additive which provides outstanding hydro and oleophobic properties allowing easy removal of most felt tipped markers and paints, without affecting the substrate material.


Cleargard is a high performance anti-graffiti coating for concrete and brickwork, designed to overcome the problems associated with solvent borne systems. The coating provides a clear gloss finish and can be applied directly onto the substrate or can be used as a protective overcoat to existing paint finishes.

Advantages

- Environmentally friendly
- Non-flammable, low odour formulation
- Economical in use and equipment may be cleaned with water
- High performance, equal or better than solvent based systems
- Easily applied by brush or roller
- Versatile, apply as an overcoat to existing finishes or directly onto concrete, brick, block or timber
- Conforms to EN1504 Part 2

Technical Information

Coverage	5 m ² per kg
Drying time	2-6 Hours
Application temperature	5°C to 35°C
Solvent resistance (ASTM D 4752)	
MEK	>200 double rubs
Toluene	>200 double rubs
Isopropanol	>200 double rubs
Accelerated weathering 1000 hours QUV-A	
Gloss retention (ASTM G53)	99 %
Delta E (ATSM E1455)	2.5
Salt spray - blister (ASTM B117)	10

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Nufins, Kingston House, 3 Walton Road, Pattinson North, District 15, Washington, Tyne & Wear. NE38 8QA 13 0086-CPD-594215	
EN 1504-2 Surface protection product coating	
Chemical resistance	
Hydrochloric acid	No visual defects
Sulphuric acid	No visual defects
Adhesion - concrete	>1.0 MPa
Dangerous substances	Comply with 5.3

Surface Preparation

All surfaces should be clean and free from all contaminants. Concrete substrates should be over 28 days old with a moisture content less than 6 %. Should the strength or the surface stability of the concrete base be in doubt, we would recommend that a trial patch of Cleargard be applied to assess its suitability.

Mixing

Mix slowly to avoid entraining air. Empty the entire contents of the hardener tin into the base tin and mix using a variable speed drill and spiral whisk until homogenous.



Technical properties of Cleargard

Properties	Standard	Performance Requirement	Declared Value
Appearance			Opaque liquid
Coverage			5m ² /kg
Usable life			1 hour
Dry film thickness (1 coat)			77µm
Drying time; Set to touch Tack free Full cure	ASTM D1640		2.5 hours 4 hours 6 hours
S.G.			1.07
Total solids			48%
Application temperature			5°C to 35°C
Specular gloss; 20° angle 60° angle	ASTM D523		89 95
Adhesion; Dry tape Dry scrape Wet tape (24 hours/21°C) Wet tape (4 days/21°C)	ASTM D3359 ASTM D2197 ASTM D3359 ASTM D3359		5A >6kg 5A 5A
Adhesion - concrete	EN1542	>1.0 MPa	>1.0 MPa
Flexibility; O-T bend	ASTM D4145-90		Pass
Impact resistance; Direct Reverse	ASTM D2794		>160in-lbs >160in-lbs
Hardness; Pencil Pendulum	ASTM D3363 ASTM D4366		2H 220
Chemical resistance; (7 Day exposure) Hydrochloric acid (10%) Sulphuric acid (10%) Nitric acid (5%)	EN ISO 2812-1 ASTM D1308		No effect No effect Very slight discolouration
Solvent resistance; MEK Toluene Isopropanol	ASTM D4752		>200 Double rubs >200 Double rubs 200 Double rubs
Artificial weathering 1000 hours QUV-A Gloss retention Delta E	ASTM G53 ASTM E1455		99% 2.5
Salt spray Blister (field)	ASTM B117		10

Technical data shown are statistical results and do not correspond to guaranteed minima.

Tolerances are those described in appropriate performance standards.

Application Instructions

Cleargard should be applied at the correct coverage rate using a brush, applicator or roller. Thinning with water is not normally required. A second coat may be when applied on very porous surfaces or where a high build is required. If required the second coat must be applied whilst the first coat is still tacky (within 4 hours) to ensure intercoat adhesion. Clean all equipment immediately after use with clean water.

For spray application contact our technical department.

Packaging

Cleargard is available in 5 kg and 20 kg units.

Storage

The shelf life is 12 months when stored unopened in dry, normal conditions and away from direct sunlight. Protect from frost.

Health & Safety

Product Safety Data Sheets (SDS) are available from Nufins. SDS sheets are provided to help customers satisfy their safe handling, use and disposal needs as well as assist with any conformance requirements made locally by health and safety regulations.

SDS are continually updated to provide the very latest Information to our customers. We therefore recommend contacting our head office to obtain the most recent and accurate SDS before handling and using any product.

Limitations

Not suitable for immersed concrete. Do not apply at temperatures below 5°C or when rain is expected.

When applied direct to concrete, Cleargard may affect the appearance of the concrete.

Disclaimer

The information contained herein is to the best of our knowledge true and accurate and is given in good faith but without warranty. The user will be deemed to have satisfied themselves independently as to the suitability of our products for their own particular purpose. In no event shall Nufins be liable for consequential or incidental damages.

Users must always refer to the most recent issue of the Technical Datasheets, copies of which will be supplied on request.

Technical Support

Through our technical department and laboratories we can offer a comprehensive service to specifiers and contractors. Technical contacts are available to provide further information and arrange demonstrations.