

USE

- Fast-drying primer/finish high-performance anti-corrosion coating with universal adherence.

FEATURES

- Single component water-based coating based on a special blend of innovative resins for the protection of metal surfaces, objects and engineered structures against corrosion and weathering. Monoguard is a DTM (Direct-To-Metal) type of coating that can be applied directly to various type of ferrous and non-ferrous metals. Its special formulation and ingredients offer incredible durability when it comes to protecting steel against corrosion, even without prior blasting of the surface.
- Monoguard is water-based, easy to handle, safe and non-flammable. It is a fast-drying coating system that greatly reduces downtime during installation and increases on-site labour productivity.
- Virtually odour-free, it does not affect neighbours and can therefore be used in occupied buildings.
- Monoguard is UV resistant and its film forms a neat and tidy enamel type of finish.
- Tested to be used in the most severe environments, Monoguard protects valuable assets worldwide 24/7 including bridges, tanks, etc.
- Monoguard is part of the SCS – Single Coating System – product group.

SUBSTRATES

Steel, new and old galvanised steel, stainless steel, aluminium, copper, ...

C5

STEEL LOCATED IN AGGRESSIVE MARINE & INDUSTRIAL ENVIRONMENTS		WET FILM THICKNESS IN MICRONS/ MILS	DRY FILM THICKNESS IN MICRONS/ MILS	CONSUMPTION PER M ² /FT ² PER GALLON	COMMENTS
Primer	Monoguard	233 / 9,3	100 / 4	0,23 l / 175	High lifespan > 15 years
Finish	Monoguard	233 / 9,3	100 / 4	0,23 l / 175	
TOTAL			200 / 8	0,46 l / 87	
OTHER OPTION IN CASE OF OLD AND RUSTY SURFACE					
Primer	Elastometal	386 / 15,4	220 / 8,8	0,48 kg / 106	High lifespan > 15 years
Finish	Monoguard	186 / 7,4	80 / 3,2	0,19 l / 219	
TOTAL			300 / 12		

C4

STEEL LOCATED IN AGGRESSIVE MARINE & INDUSTRIAL ENVIRONMENTS		WET FILM THICKNESS IN MICRONS/ MILS	DRY FILM THICKNESS IN MICRONS/ MILS	CONSUMPTION PER M ² /FT ² PER GALLON	COMMENTS
Primer	Monoguard	174 / 7	75 / 3	0,17 l / 234	High lifespan > 15 years
Finish	Monoguard	174 / 7	75 / 3	0,17 l / 234	
TOTAL			150 / 6	0,34 l / 117	
OTHER OPTION IN CASE OF OLD AND RUSTY SURFACE					
Primer	Elastometal	315 / 13	175 / 7	0,4 kg / 130	High lifespan > 15 years
Finish	Monoguard	186 / 7,4	80 / 3,2	0,19 l / 219	
TOTAL			255 / 10,2		

C3

STEEL LOCATED IN MODERATE ENVIRONMENTS		WET FILM THICKNESS IN MICRONS/ MILS	DRY FILM THICKNESS IN MICRONS/ MILS	CONSUMPTION PER M ² /FT ² PER GALLON	COMMENTS
Primer	Monoguard	128 / 5,1	55 / 2,2	0,13 l / 319	High lifespan > 15 years
Finish	Monoguard	128 / 5,1	55 / 2,2	0,13 l / 319	
TOTAL			110 / 4,4	0,26 l / 160	
OTHER OPTION IN CASE OF OLD AND RUSTY SURFACE					
Primer	Elastometal	214 / 8,5	120 / 4,8	0,27 kg / 190	High lifespan > 15 years
Finish	Monoguard	186 / 7,4	80 / 3,2	0,19 l / 219	
TOTAL			200 / 8		

RISKS OF CHEMICAL SPILLS OR GRAFFITIS

Possible to be top-coated by one or two coats of Hydrograff HP Clear High Gloss if not already used in the system. Indicated consumption is theoretical and does not consider potential losses during application. It can also be influenced by the porosity of the substrate.

APPLICATION INSTRUCTIONS

APPLICATION CONDITIONS

Ambient temperature: minimum 5°C (41°F) – optimal between 12 and 25°C (54 and 77°F).

Relative humidity: maximum 80%

Surface temperature must be minimum 3°C (5°F) above dew point.

APPLICATION MEANS:

Brush, roller or airless (nozzle size: 010–015)

Application by airless is recommended and makes it easier to reach the recommended thicknesses. Use a device that allows a minimum pressure of 70 - 150 bar / 1000 - 2000 psi at the outlet.

PREPARATION OF THE SUBSTRATE

The substrate must be clean: dry, degreased and dust-free. Non adhering elements such as older coatings or rust must be removed.

Different types of surface preparation are possible:

1/ Remove rust manually or by power tool to ST2 – ISO 8501-1/SSPC SP2 or SP3.

2/ Blasting to SA 2½ - ISO 8501-1/NACE3/SSPC SP6.

3/ High-pressure washing following SSPC SP12 WJ4.

Aluminum and copper: clean with detergent diluted with water. Smooth surfaces should be matted down.

On new galvanized steel and stainless steel: clean with detergent diluted with water. Remove zinc deposits and salts with acid or calcium carbonate.

DILUTION

Product is ready-for-use. Dilute with maximum 3% water when applying by airless or in warm weather conditions (> 25°C / > 77°F).

DRYING TIME (20°C / 68°F)

Touch-dry: +/- 1 hour depending on thickness.

Recoatable: +/- 2 hours depending on film thickness.

Possible to apply wet on wet in special conditions.

CLEANING OF TOOLS

Water.

SPECIFICITIES

Mix well before use.

TECHNICAL DATA

FINISH (GARDNER 60°)	Semi-Gloss +/- 65 % +/- 5
DENSITY	1,15 +/- 0,05 g/cm ³
COLOURS	Stock colours: white. Also available in clear, check Monoguard Clear. RAL, NCS. Available on Power Coat dispensing system.
SOLIDS CONTENT	In weight: 51 % +/-2 In volume: 43 % +/-2
VISCOSITY	30 – 50 P (Brookfield 20RPM)
VOC-CONTENT	< 50 g/l
FLASH POINT	Not flammable
STORAGE	24 months, keep away from frost and store away from heat.

NORMS AND TESTS

SALT SPRAY ISO 12944 / ISO 9227 / ISO 4628

WATER CONDENSATION ISO 12944 / ISO 6270 / ISO 4628

ADHESION ISO 2409

USE

Information related to hygiene and to safety can be found in the Safety Data Sheet available on request.

These specifications are given for information. Since the manufacturer is not able to check the application of the products, he cannot accept any responsibility for it. This technical data sheet replaces all previous editions