



ARMAGUARD

Product characteristics

Description

ARMAGUARD is a polyamide curing, high solids epoxy paint. It forms a hard and tough coating, has good wetting properties and cures at low temperature.

Complies with EU Directive 2004/42/EC, The Paints Directive on the limitation of volatile organic compounds: subcategory j.

Recommended use

ARMAGUARD is recommended as a self-primed, surface tolerant paint system, or as an intermediate or a topcoat in systems where low VOC and high film build are required. The product can be used when extended recoating properties for polyurethane topcoats are required. It may also be used directly on zinc silicate or spray metallised surfaces. The product can be used for minor repairs in immersed areas. **Service temperature:**

- Maximum, dry exposure only: 120°C [248°F].

Certificates / Approvals

- EC-type examined as a low flame spread material when used as part of a predefined paint system. Please refer to "Declaration of Conformity" on Rustbuster.com for further details.
- Meets requirements to ISO 12944 when used as part of a predefined paint system. Part 6 C4 High.
- Complies with the European Fire Standard EN 13501-1, reaction to fire classification, when used as part of a predefined paint system. Bs1, d0.
- Complies with US FDA and EU food regulations for contact with dry foodstuff. Consult Rustbuster for details.

Features

- Versatile.
- High surface tolerance.
- Low temperature curing.

Product safety

Flash point 25°C [77°F]

* Wide range of colours is available via Rustbuster's Multi-Tint® system.

** Slight discolouration may occur. This does not affect the performance of the coating.

Gloss

VOC content mixed product

Legislation	Value	5% thinning,	Limit value,
		by volume	phase II (2010) ^a
	218 g/L	248 g/L	500 g/L
EU	[1.82 lb/US gal]	[2.07 lb/US gal]	[4.17 lb/US gal]
US (coatings)	218 g/L [1.82 lb/US gal]	-	-
US (regulatory)	218 g/L [1.82 lb/US gal]		
China	218 g/L [1.82 lb/US gal]		

According to specific legislation, see details in the Explanatory Notes available at Rustbuster website, Rustbuster.com or at your local Rustbuster website. VOC values may vary with shade, please consult the Safety Data Sheet, section 9.

^aEU Directive 2004/42/CE.

Handling

Handle with care. Before and during use, observe safety labels on packaging and paint containers and follow all local and national safety regulations. Always consult Rustbuster's Safety Data Sheet for this product along with the Product Data Sheet.

For professional use only.

Product data

Product code

ARMAG

Product components

Component A & Component B

Standard shade* / code

Light grey 12170 **



Semi-gloss

Volume solids 80 ± 2% **Specific gravity**

ARMAGUARD

1.5 kg/L [12 lb/US gal]

Reference dry film thickness

125 micron [4.9 mils]

Aluminium shade / code Aluminium
grey 19002

Gloss

Please consult Rustbuster's Guideline on aluminium pigmented coatings.

Volume solids

72 ± 2%

Specific gravity

1.3 kg/L [11 lb/US gal]

Reference dry film thickness

125 micron [4.9 mils]

Surface preparation

Cleanliness

- Remove oil, grease and other contaminants by suitable detergent cleaning.
- Remove salts, detergents and other contaminants by high pressure fresh water cleaning. New build:
- Abrasive blasting to min. Sa 2½ (ISO 8501-1) / SP 10 (SSPC).
- Concrete: According to Rustbuster's Specification. - Remove dust, blast media and loose materials.

Maintenance and Repair

- Spot abrasive blasting to min. PSa 2 (ISO 8501-2) / SP 6 (SSPC).
- Minor areas may be hand or power tool cleaned instead of abrasive blasting.
- Water jetting to min. Wa 2 (ISO 8501-4).
- Flash rust degree of maximum FR M (ISO 8501-4). - Remove dust, blast media and loose materials.

Roughness

- Surface profile Medium (G) (ISO 8503-2).

Consult Rustbuster's separate Surface Preparation Guidelines for more details.

(3 : 1 by volume)

Stir well before use.

Application

Mixing ratio

Comp A 3 Parts to 1 Part Comp B



Thinner

ARMAGUARD THINNER

Cleaner

ARMAGUARD THINNER

Pot life

Product 15°C 20°C 30°C temperature [59°F] [68°F] [86°F]

Induction time	15 min	10 min	0 min
Pot life (spray)	90 min	60 min	30 min
Pot life (brush)	3 hours	2 hours	1 hour

Application method

Tool	max vol.	Thinning		Application parameters
Airless spray	5%			Nozzle pressure: 250 bar [3600 psi] Nozzle orifice: 0.017-0.023"
Brush/Roller	5%			Not Applicable.

If brush or roller application is used, more coats will be necessary to achieve the specified dry film thickness. Spray data are indicative and subject to adjustment. Pressure is for a material temperature of 20°C [68°F].

Surface dry	hours	36	20	2½	1
Hard dry	hours	48	25	3½	1½
Fully cured	days	75	30	7	3

Dry film thickness	micron[3.9 mils]	micron[7.9 mils]	micron[4.9 mils]
Theoretical spreading rate [330 sq ft/US gal] [160 sq ft/US gal] [260 sq ft/US gal]	m²/L	m²/L	6.4 m²/L

Wet film thickness	micron [5 mils]	micron[10 mils]	micron [6 mils]
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Film thickness

Specification range **Low** **High** **Recommended**

Product may be specified in another film thickness than indicated depending on purpose and area of use. This will alter spreading rate, drying and curing time and overcoating interval. For best performance, avoid excessive film thickness.

Application conditions

- Temperature of product must be above 15°C [59°F] during application.
- To avoid condensation, apply on a clean and dry surface with a temperature that is at least 3°C [5°F] above the dew point.
- Surface temperature must be above -5°C [23°F] during application

and curing. Relative Humidity:

- Relative humidity must be below 85% during curing.

Atmospheric medium

MaxMin	54 h Ext	6 h Ext	4½ h Ext	3½ h Ext
MaxMin	54 h Ext	6 h Ext	4½ h Ext	3½ h Ext

Atmospheric severe

MaxMin	4 d Ext	10 h Ext	7½ h Ext	5½ h Ext
MaxMin	4 d 27 d	10 h 72 h	7½ h 54 h	5½ h 40 h

Drying and overcoating

Product compatibility

- Previous coat: None or according to Rustbuster's specification.
- Subsequent coat: None or according to Rustbuster's specification.

Drying time

Surface -5°C 0°C 20°C 40°C temperature [23°F] [32°F] [68°F] [104°F]

Determined for dry film thickness 125 micron [4.9 mils] at standard conditions, see Rustbuster's Explanatory Notes for details.

Overcoating

Rustbuster's specification supersedes any guidelines indicated in the overcoating table

	0°C	20°C	30°C	40°C
Quality name	[32°F]	[68°F]	[86°F]	[104°F]



Overcoating times are indicative for products of the same generic chemistry. Consult Rustbuster's specification for more information.

Drying conditions

- To obtain the drying time stated, it is important to maintain sufficient ventilation during application, drying and curing.

Overcoating details

- If the maximum overcoating interval is exceeded, roughening of the surface is necessary to ensure intercoat adhesion.
- The surface must be dry and clean prior to application.

Other remarks

- Epoxy coats have an inherent tendency of chalking in outdoor exposure. This does not affect the performance of the coating.
- Rustbuster's Specification supersedes any recommendations given in the Product Data Sheets.



ARMAGUARD

Storage

Shelf life

Ambient 25°C 35°C temperature [77°F] [95°F]

Shelf life from date of production, when stored in original, unopened containers.

Base	months	months
Curing Agent	months	months

Thereafter, the product quality must be re-inspected. Always check the best before date or expiry date on the label.

Storage conditions

- Product must be stored according to local legislation, at maximum 40°C [104°F], without direct sunlight and protected from rain and snow.

Additional documents

Additional information is available at the Rustbuster website Rustbuster.com or at your local Rustbuster website:

- Explanatory Notes explaining the fields in this Product Data Sheet.
- Surface Preparation Guidelines.
- Application Guidelines for different application methods.
- General Application Guidelines

This Product Data Sheet ("PDS") relates to the supplied product ("Product") and is subject to updating from time-to-time. Accordingly, the buyer/applicator should have regard to the PDS supplied together with the relevant batch of the Product (and not an earlier version). In addition to the PDS, the buyer/applicator may receive some or all of the following specifications, statements and/or guidelines as listed below or as are available from the Rustbuster website under 'Products' at www.Rustbuster.com (the "Additional documents"):

No.	Document description	Location/comments
1.	Technical Statement	One-off specific advice provided on request for specific projects
2.	Specification	Only issued for specific projects
3.	PDS	This document
4.	Explanatory Notes to the PDS	Available at www.Rustbuster.com and contain relevant information about the Product testing parameters
5.	Application Instruction	Where available, at www.Rustbuster.com
6.	Generic technical guidelines (e.g. on application and surface preparation)	Where available, at www.Rustbuster.com

In the event of a conflict of information between the PDS and the Additional documents, the order of priority of information shall be in the order as set out above. In such event you should also contact your representative at Rustbuster for clarification. Furthermore, the buyer/applicator must have full regard to the relevant Safety Data Sheet provided with each Product and which can also be downloaded from www.Rustbuster.com.

Rustbuster shall not be liable for defects where the application of the Product has not been made fully in accordance with the recommendations and requirements set out in the relevant PDS and the Additional Documents. The information and terms of this disclaimer apply to this PDS, the Additional documents and any other documents supplied by Rustbuster in respect of the Product. In addition, the Product is supplied and all technical assistance is given subject to Rustbuster's General Conditions of Sale, Delivery and Service, unless otherwise expressly agreed in writing.