

Beger Rust Guard

High Performance

2 Packs High Performance Epoxy

Product Description

Beger Rust Guard is a two-pack high performance epoxy with high volume solid for high build application.

Features and Benefits

This product can be used as primer and top coat with special properties beyond other primers for application over and under water including substrate that cannot be cleaned with sandblast.

Gloss retention	Good
Water resistance	Very good
Abrasion resistance	Excellent
Solvent resistance	Very good
Chemical resistance	Very good
Flexibility	Very good

Applications

Suitable for various surfaces such as steel, stainless, aluminium, galvanized, and zinc.

Typical paint system

Used as primer and top coat:

Rust Guard 2 x 150 Micron (dry film)

Used as primer :

Rust Guard 1 x 150 Micron (dry film)

Durathane 2 x 50 Micron (dry film)

Other systems may be specified, depending on area of use

Physical properties

Colour	Limited shade
Solids (vol %)	85 ± 2
Flash point	30 °C ± 2
Gloss	Semi-Gloss
Pot life (23°C)	4 hours
Shelf Life (Under normal condition)	12 months
Drying time	

Drying times are generally related to air circulation, temperature, film thickness and number of coats, and will be affected correspondingly. The figures given in the table are typical with:

- * Good ventilation (Outdoor exposure or free circulation of air)
- * Typical film thickness
- * One coat on top of inert substrate

Substrate temperature	10 °C	23 °C	40°C
Surface dry	8 h	4 h	2 h
Through dry	24 h	14 h	5 h
Cured	14 d	7 d	2 d
Dry to recoat, minimum	48 h	14 h	5 h
Dry to recoat, maximum ¹			

1. Provided the surface is free from chalking and other contamination prior to application, there is normally no overcoating time limit. Best intercoat adhesion occurs, however, when the subsequent coat is applied before preceding coat has cured. If the coating has been exposed to direct sunlight for some time, special attention must be paid to surface cleaning and mattening/removal of the surface layer in order to obtain good adhesion.

The given data must be considered as guidelines only. The actual drying time/times before recoating may be shorter or longer, depending on film thickness, ventilation, humidity, underlying paint system, requirement for early handling and mechanical strength etc. A complete system can be described on a system sheet, where all parameters and special conditions could be included.

Film thickness and spreading rate	Minimum	Maximum	Typical
Film thickness, dry (µm)	100	250	125
Film thickness, wet (µm)	120	295	150
Theoretical spreading rate (m ² /l)	8.5	4.3	6.8
Theoretical spreading rate (m ² /USG)	32.1	16.0	25.7

Surface preparation

All surfaces should be clean and free from contamination. The surface should be assessed and treated in accordance with ISO 8504.

Bare steel	Cleanliness: Power tool cleaning to min. St 2, mill scale free (ISO 8501-1:2007). Improved surface treatment (blast cleaning to Sa 2 1/2) will improve the performance. In case of hydrojetting the flash rust degree shall not exceed moderate in SSPC and NACE standards for water prepared surfaces.
Shopprimed steel	Clean, dry and undamaged approved blast-primer.
Coated surfaces	Clean, dry and undamaged compatible primer. For maintenance WJ3 (NACE No.5/SSPC-SP 12) or Power tool cleaning to min. St 2 for rusted areas
Other surfaces	The coating may be used on other substrates. Please contact Beger office for more information.

Condition during application

The temperature of the substrate should be minimum +10°C and at least 3°C above the dew point of the air, temperature and relative humidity measured in the vicinity of the substrate. Good ventilation is required in confined areas to ensure proper drying.

Hydrojetting of steel surface makes a wet surface. The surrounding air must have a relative humidity not exceeding 85 %. Before painting the surface shall not be glossy with moisture, but can have a patchy appearance.

Application methods

Spray	Use airless or air spray
Brush	Recommended for stripe coating and small areas, care must be taken to achieve the specified dry film thickness.
Roller	May be used for small areas but not recommended for first primer coat, however when using roller application care must be taken to apply sufficient material in order to achieve the specified dry film thickness.

Guiding data airless spray

Pressure at nozzle	15 MPa (150 kp/cm ² , 2100 psi).
Nozzle tip	0.46-0.69 mm (0.013-0.018")
Spray angle	40-80°
Filter	Check to ensure that filters are clean.

Application data

Mixing ratio (volume)	4 parts Comp. A (base) to be mixed thoroughly with 1 part Comp. B (curing agent)
Induction Time	10 minutes
Thinner/Cleaner	Beger Thinner No. M-68
Dilute with Thinner	0 - 10% (By Volume)

Note

- * The temperature of the mixture of base and curing agent is recommended to be at least 15°C, otherwise extra solvent may be required to obtain correct viscosity.
- * Too much solvent results in lower sag resistance and slower cure.
- * If extra solvent is necessary, this should be added after mixing of the two components.

Storage

The product must be stored in accordance with national regulations. Storage conditions are to keep the containers in a dry, cool, well ventilated space and away from source of heat and ignition. Containers must be kept tightly closed.

Handling

Handle with care. Stir well before use.

Packing size

0.946 L : 0.757 litres Comp. A (base) and 0.189 litres Comp. B (curing agent)
3.785 L : 3.028 litres Comp. A (base) and 0.757 litres Comp. B (curing agent)
18.925 L : 15.136 litres Comp. A (base) and 3.784 litres Comp. B (curing agent)

Cautions

Keep out of reach of children.
Do not use or keep near heat, sparks, flame or other source of ignition and direct sun light
Keep away from water during application

Health and safety

Please observe the precautionary notices displayed on the container. Use under well ventilated conditions. Do not breathe or inhale mist. Avoid skin contact. Spillage on the skin should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought immediately.

For detailed information on the health and safety hazards and precautions for use of this product, we refer to the Material Safety Data Sheet. Visit our website at www.beger.co.th , e-mail: marketing@beger.co.th



DISCLAIMER

The information in this data sheet is given to the best of our knowledge based on laboratory testing and practical experience. However, as the product is often used under conditions beyond our control, we cannot guarantee anything but the quality of the product itself. We reserve the right to change the given data without notice.

TECHNICAL DATA SHEET:

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