



## Technical Data Tank Guard Epoxy Coating

**Product description** Tank Guard Epoxy Coating is a two-pack surface tolerant high solids epoxy mastic coating which is provided in 1 :1 mixing ratio for easy mixing and reduced wastage.

Tank Guard Epoxy Coating is applied by Spray brush or roller.

### Recommended use

Anticorrosive coating for steel structures.

Tank Guard Epoxy Coating is suitable for areas with lower quality surface preparation and extended durability is expected.

### Film thickness and spreading rate

#### Minimum Maximum Typical

Film thickness, dry ( $\mu\text{m}$ ) 100 – 400

Film thickness, wet ( $\mu\text{m}$ ) 115 – 445

Theoretical spreading rate ( $\text{m}^2/\text{l}$ ) 8.7 – 2.9

#### Comments

Film thickness above is typical for what is achieved by one coat .

**Colour** Aluminium, Black, Buff, Green, Grey, Red Solids (vol %)\*72  $\pm$  2 Aluminium75  $\pm$  2 Black, Buff, Grey, Green, Red Flash point33°C  $\pm$  2 (Seta flash)VOC Aluminum 2,51 lbs/gal (300 gms/ltr) USA-EPA Method 24240 gms/ltr UK-PG6/23(97). Appendix 3Colours2,34 lbs/gal (280 gms/ltr) USA-EPA Method 24230 gms/ltr UK-PG6/23(97). Appendix 3

Gloss Level	Semi gloss
Gloss retention	Fair
Water resistance	Very good
Abrasion resistance	Very good
Solvent resistance	Good
Chemical resistance	Good
Flexibility	Good *Measured according to ISO 3233:1998 (E)

### 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 2½) will improve the performance. In case of hydro jetting the flash rust degree shall not exceed moderate in SSPC and NACE standards for water prepared surfaces. Shop primed steel Clean, dry and undamaged approved shop primer.

Coated surfaces Clean, dry and undamaged compatible primer. Contact Rustbuster office for more information. For maintenance UHPWJ to WJ2 (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 Rustbuster for more information.

### Condition during application

The temperature of the substrate should be minimum 0°C and minimum 3°C above the dew point of the air. The temperature and the relative humidity should be measured in the vicinity of the substrate. Good ventilation is usually required in confined areas to ensure proper drying. With forced ventilation, avoid heated air at first as this may cause surface drying and solvent entrapment. The coating should not be exposed to oil, chemicals or mechanical stress until fully cured.

Hydro jetting 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 Airless

Spray can be used. Conventional or Industrial airless

Conventional spray thin up to 15% with No17 Epoxy thinners

Brush

Use a round brush. Care must be taken to achieve the spreading rate.

Roller

Use of a foam roller will provide the best hand finish results.

### Application data

Mixing ratio (volume) 1 part by volume Comp. A (Base) to be mixed thoroughly with 1 part by volume , **Tank Guard Epoxy Coating** Comp. B (Curing agent).

Mixing Mix well and allow to stand (10 min. including mixing). Pot life (23°C) 1½ hours

Thinner/ [Tank Guard Epoxy Coating](#) Thinner \* 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.

### 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	Surface dry	Through dry	Cured	Dry to recoat min
5°C	12 h	20 h	d	
10°C	7 h	14 h	14d	24h
23°C	4 h	7 h	7 d	10h
40°	2 h	3 h	3 d	5h

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.

### Handling

**Handle** with care. Stir well before use.

**Packing size** 5 litres Comp. A (base) 5 litres Comp. B (curing agent) in 5 litre containers.

### 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.

### 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.

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