

PRODUCT SPECIFICATIONS

Product Description

A two-component, cold cured Vinyl Ester Acrylic incorporated with highly durable pigments and reinforced with glass flakes.

Design Feature

- A single coat, solvent free system for offshore maintenance of steelwork such as the splash zone, risers, conductors and decks. Suitable for use in new construction equipment's used in hydrocarbon, aqueous and corrosive chemical environments.
- Outstanding abrasion and anti-corrosive performance.
- Excellent water and chemical resistance.
- Good durability and weathering properties.
- Fast curing and high build coating.

Physical Characteristics

Recommended Application Data	Wet [µm]	Dry [µm]	m²/l
Theoretical Coverage	510	500	2.0

Volume Solids	:	98 % (based on ASTM D2697)
Dry Film Thickness Range	:	500 µm to 1000 µm
Flash Point	:	31 °C
Finish	:	Matt
Colour Range	:	Off White / Grey
Standard Packing Size	:	20 Litres set (19.6 litres Base : 0.4 litres Catalyst)
Mix Ratio (by volume)	:	98 Base : 2 Catalyst

Application Method

AIRLESS SPRAY	:	Remove all strainers
Recommended method of application	Tip Size	: 1.14 - 1.30 mm (45 - 50 thou)
	Pressure	: 206 - 241 kg/cm² (3000 - 3500 psi)
BRUSH OR ROLLER	:	May be used for difficult shapes or touch-up; however, additional coats may be required to achieve the recommended film thickness. These application methods are recommended for stripe coating welds, edges, rivets, etc.

Drying & Curing Time

Substrate Temperature	Touch Dry	Hard Dry	Overcoating Interval		Pot Life
			Min.	Max.	
15 °C	2 hours	24 hours	2 hours	96 hours	45 minutes
25 °C	1 hour	18 hours	1.5 hours	72 hours	1 hour
35 °C	45 minutes	12 hours	1 hour	48 hours	2 minutes

Useful Information

THINNER	:	Not recommended
CLEANER	:	SOLVALUX 7-77
STORAGE	:	Store in a cool dry shaded area.
SHELF LIFE AT 25 °C	:	12 months when stored as prescribed in the MSDS.

Surface Preparation

The service life span and the service performance of STEELSHIELD VE is directly related to the degree of surface preparation.

STEEL

- Steel must be blasted to a minimum cleanliness of Sa 2½ (ISO 8501-1:1988) or SSPC-SP10. For optimum / best performance and for highly corrosive conditions, blasting to Sa 3.0 / First Quality or SSPC-SP5 is recommended. A surface profile of 75 – 125 microns is required. To achieve the required profile, abrasive of sizes S240, G24 or larger recommended.
- After blasting, remove dust from the surface and the surface should be clean.
- Apply Steelshield VE immediately after blasting to avoid oxidation and recontamination of the blasted steel surface. If case of oxidation or recontamination, re-blast to the required standard.

To avoid condensation of moisture onto substrate prior to coating application, relative humidity should not exceed 85% and substrate temperature should be more than 3°C above Dew Point.

Notes

- The coating specifications given above are typical. For specific recommendations to suit individual applications, please refer to your Berger Paints representative.
- The tip size recommended is 0.030 – 0.06 inch. The fan width should be controlled using a 45 – 85 angle tip. The tip must be checked regularly for wear and tear as glass flakes coating wear out tips very quickly.
- As this is a highly reactive product, mix the catalyst with the base only when ready to apply. Once application is complete, flush equipment immediately.
- This product is not suitable for application to a substrate with pH greater than pH 3.
- Not suitable for protection against polar solvents.

Safety Precaution

- Avoid contact with eyes and skin. Wear suitable protective clothing such as overalls, goggles, dust mask and gloves. Use barrier cream.
- This product contains low flash point solvents, do not use in poorly ventilated areas especially in confined tank interiors.
- Ensure that there is adequate ventilation in the area where the product is being applied. Do not breathe in vapour or spray mist.
- This product is flammable. Keep away from sources of ignition. Do not smoke.
- Take precautionary measures against static discharge.
- In case of fire, blanket flames with foam, carbon dioxide or dry chemicals.

First Aid

- Eyes** : In the event of accidental splashes, flush eyes with warm water immediately and seek medical advice.
- Skin** : Wash skin thoroughly with soap and water or approved industrial cleaner. Do Not Use solvents or thinners.
- Inhalation** : Remove to fresh air, loosen collar and keep patient rested.
- Ingestion** : In case of accidental ingestion, DO NOT INDUCE VOMITING. Obtain immediate medical attention.

For further safety information, please refer to our **Material Safety Data Sheet (MSDS)**

The information provided on this data sheet is not intended to be complete and is provided as general advice only. It is the responsibility of the user to ensure that the product is suitable for the purpose for which he wishes to use it. As we have no control over the treatment of the product, the standard of surface preparation of the substrate, or other factors affecting the use of this product, we are not responsible for its performance nor would we accept any liability whatsoever or howsoever arising from the use of this product unless specifically agreed to in writing by us. The information contained in this data sheet may be modified by us from time to time, and without notice, in the light of our experience and continuous product development.

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