

PRODUCT SPECIFICATIONS

Product Description

A two-component, high solids, glass flake reinforced epoxy coating.

Design Feature

- A high performance coating with high strength and toughness for the most demanding of applications, such as splash and tidal zones, offshore steel superstructures, bridges, decks etc.
- Suitable as a single coat maintenance system for onshore and offshore installations.
- Able to cure underwater and at temperatures down to 5°C.
- Outstanding barrier and anti-corrosive performance.
- Excellent chemical, abrasion and impact resistance.
- Compatible with sacrificial anode and impressed current systems. Resistant to cathodic disbondment.

Physical Characteristics

Recommended Application Data	Wet [µm]	Dry [µm]	m²/l
Theoretical Coverage	445	400	2.25

Volume Solids	:	90% (based on ASTM D2697)
Dry Film Thickness Range	:	125 µm to 500 µm
Flash Point	:	35 °C
Finish	:	Semi-gloss
Colour Range	:	Limited Colours
Standard Packing Size	:	20 Litres set (15.0 litres Base : 5.0 litres Hardener)
Mix Ratio (by volume)	:	3 Base : 1 Hardener

Application Method

AIRLESS SPRAY	:	Remove all strainers
Recommended method of application	Tip Size	: 0.53 – 0.63 mm (21 – 25 thou)
	Pressure	: 110 – 160 kg/cm² (1600 – 2300 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	6 hours	16 hours	16 hours	5 days	2 hours
25 °C	4 hours	8 hours	8 hours	4 days	90 minutes
35 °C	2 hour	6 hours	6 hours	3 days	1 hour

Useful Information

THINNER	:	SOLVALUX 7-45 (Maximum 5% addition)
CLEANER	:	SOLVALUX 7-77
STORAGE	:	Store in a cool dry shaded area.
SHELF LIFE AT 25 °C	:	24 months when stored as prescribed in the MSDS.

Surface Preparation

The service life span and the service performance of STEELSHIELD 1200 is directly related to the degree of surface preparation. It can be applied direct onto a blast cleaned steel substrate or to a suitably primed surface (e.g. with EPILUX 610 or ZINCANODE 668).

STEEL

- Remove all wax, oil and grease by solvent cleaning in accordance with the guidelines given by SSPC-SP1. Where necessary remove weld spatter and round off all rough weld seams and sharp edges to a smooth surface.
- Abrasive blast clean to a minimum standard of Sa2½ (ISO 8501-1:1988) or SSPC-SP10 (Blast to Sa 3 or SSPC-SP5 for optimum performance). A surface profile of 75 to 100 microns is required for direct to steel application. For primed applications, please follow profile recommendations given for the primer.
- Any surface defects that is revealed by blast cleaning should be ground, filled or treated in a suitable manner. After blasting, remove dust from the surface. The surface that is to be coated must also be clean and dry.
- Apply Steelshield 1200 immediately after blasting to avoid oxidation and recontamination of the steel surface. In 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.

Suitable Undercoats

Epimastic 3000HS (for hand tool cleaned surfaces)
Epilux 610 (for abrasive blast surfaces)

Notes

- The coating specifications given above are typical. For specific recommendations to suit individual applications, please refer to your Berger Paints representative.
- Common to all epoxies this product will experience chalking on prolonged exposure to sunlight. However, this phenomenon is not detrimental to coating performance.
- Exposure to very low temperatures, high humidity or water ponding during and / or immediately after application may result in incomplete cure and / or discolouration that may compromise subsequent intercoat adhesion.
- The finish will be matt if cured underwater.

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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