

STEEL SHIELD 1200

High Build Glass Flake Epoxy

PRODUCT DESCRIPTION

A high solids and high build epoxy coating incorporating glass flakes and inert pigments.

- Cures at above and below water/sea level.
- Excellent Corrosion resistance.
- Excellent resistance against fresh and sea water.
- Excellent abrasion resistance.
- Good resistance against mild chemicals.
- Low VOC – hence user and environment friendly.
- No primer required.

DESIGNED USE

- Steel and concrete structures in splash / tidal zone.
- As a single coat maintenance system.
- As a general maintenance coating for on-shore and off-shore installations.

PHYSICAL DATA

VOLUME SOLIDS (Based on ASTM D2697)	84 % $\pm$ 2 %
TYPICAL DRY FILM THICKNESS	500 microns
WET FILM THICKNESS	595 microns
THEORETICAL COVERAGE	1.7 m ² /litre @ 500 microns dft
COLOUR	Limited Shades
FINISH	Low Sheen

APPLICATION DETAILS

METHOD OF APPLICATION :					
AIRLESS SPRAY			This is the recommended method of application: Maximum 5% Thinner may be added. Tip Size: 0.93 - 1.38 mm (0.031 - 0.055 in) Pressure: 206 - 241 kg/cm ² (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.		
DRYING TIME:					
Surface Temperature	Touch Dry	Hard Dry	Re coating Interval		Pot Life
			Minimum	Maximum	
15°C	9 Hrs	18 Hrs	32 Hrs	21 Days	3 Hrs
25°C	6 Hrs	12 Hrs	20 Hrs	14 Days	2 Hrs
35°C	4 Hrs	8 Hrs	14 Hrs	7 Days	1 Hr
45°C	2 Hrs	6 Hrs	8 Hrs	5 Days	30 mins
NO. OF COMPONENTS			Two		
Mixing Ratio			4 parts Base to 1 part Hardener (by volume)		
Application Conditions			Do not apply this product if the Relative Humidity exceeds 85% or if the substrate temperature is within 3°C of the dew point		

ADDITIONAL INFORMATION

Thinner / Cleaning solvent	Solvalux 7-45
Storage Instruction	Store in a cool shaded dry area
Flash Point	Mixed 36°C
Packaging	20 liters
Shelf Life	12 months from the date of manufacture.

SURFACE PREPARATION

This product can be applied either directly to blasted steel or over suitable primer (e.g. EPILUX 610 or EPILUX 78).

- Remove all wax, oil and grease by solvent cleaning in accordance with the guidelines given by SSPC-SPI.
- 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 Sa 2 ½ Swedish Standard SIS 05 59 00 or ISO 8501-1 : 1988.
- For direct application, the surface profile should be in between 75 – 100 micron.
- Any surface defects revealed by blast cleaning should be ground, filled or treated in a suitable manner.
- After blasting, remove dust from the surface.
- The surface to be coated must also be clean and dry.
- The surface to be applied must be clean, dry and free from soluble salts. If required, fresh water wash should follow to remove soluble salts.

CONCRETE

- Ensure the surface is sound. Remove laitance by through wire-brushing, acid etching or sweep blasting. Blowholes and other defects should be filled with Solventless Epoxy Filler.

SPLASH/ TIDAL ZONE INSTALLATION

- Ensure substrate is suitably prepared as described above. Substrate must be dry and above fresh/ sea water level during application of this product. The curing process of the applied coating continues even if it is completely submerged in Fresh/ Sea water.

PRODUCT USE RESTRICTIONS

- This product has to be applied over a dry surface
- Finish will be matt if cured underwater.
- **Consult Berger if product is to be applied in non-tropical climate.**
- Pot life short, hence mix base and hardener only when ready to use.

SAFETY PRECAUTIONS

- Avoid contact with the skin and eyes. Wear suitable protective clothing such as overalls, goggles, dust masks and gloves. Use a barrier cream.
- Ensure that there is adequate ventilation in the area where the product is being applied. Do not breathe vapor or spray.
- 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
- Refer to MSDS for further information.

FIRST AID

- Eyes: In the event of accidental splashes, flush eyes with water immediately and obtain medical advice
- Skin: Wash skin thoroughly with soap and water or approved industrial cleaner.
- DO NOT USE solvent 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

DISCLAIMER

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.