

CORSMART® CGE2500 - Glass Flake Epoxy

PRODUCT DATA SHEET



CORSMART® Glass Flake Epoxy is a two-component high build epoxy that contains a high level of chemically resistant glass flake. The product imparts properties of excellent corrosion, abrasion and chemical resistance. It remediates & reinforce splash zone areas, jetties decks, bridges, chemical plants etc.

FEATURES

- High abrasion and corrosion resistant
- Very high solid content and low in VOC
- High adhesion & compressive strength
- Cures at room temperature (23°C to 25°C)
- Excellent bonding to all rigid substrates
- Long term protection of subsea structures

KEY TECHNICAL DATA

- Volume Solids : 92%
- Typical Thickness : 500-1000 microns
- Theoretical Coverage : 1.80 m²/liter
- Pot Life : 20 mins @23°C - 25°C
- Elongation : 1.3% (ASTM D2370)
- Impact : 4 Joules (ASTM D2370)
- Tensile Strength : 15 MPa (ASTM D2370)

Overcoating Interval with recommended topcoats

Temperature	Touch Dry	Hard Dry	Minimum	Maximum
10°C (50°F)	14 hours	26 hours	26 hours	7 days
15°C (59°F)	8 hours	18 hours	18 hours	5 days
25°C (77°F)	5 hours	12 hours	12 hours	4 days
40°C (104°F)	2 hours	5 hours	5 hours	1 day

Regulatory Data

Flash Point (Typical)	Part A 44°C (111°F); Part B >101°C (214°F); Mixed 56°C (133°F)		
Product Weight	1.3 kg/l (10.8 lb/gal)		
VOC	0.62 lb/gal (75 g/lit)	EPA Method 24	EU Solvent Emissions Directive (Council Directive 1999/13/EC)

SURFACE PREPARATION

All surfaces to be coated should be clean, dry and free from contamination. Prior to paint application all surfaces should be assessed and treated in accordance with ISO 8504:2000.

Oil or grease should be removed in accordance with SSPC - SP1 solvent cleaning.

Abrasive Blast Cleaning

Abrasive blast clean to Sa2½ (ISO 8501-1:2007) or SSPC-SP10. If oxidation has occurred between blasting and application of CorSmart® CGE2500, the surface should be reblasted to the specified visual standard. Surface defects revealed by the blast cleaning process should be ground, filled, or treated in the appropriate manner.

A sharp, angular surface profile of 75-100 microns (3-4 mils) is recommended.



Resin

Activator

PACKAGING INFORMATION

PRODUCT CODE	SIZE	IMPA CODE	HS CODE
CGE25000	25 liters	812301	39073030

*Recommend to mix the products after surface preparation. Curing time for the mixed product is 20minutes.

*CorSmart Resin & Activator can be customised to suit different types of corrosion repair, kindly speak to our representative for more information

APPLICATION

- Sand off the rusty area
- Pour activator into resin
- Stir the contents thoroughly for at least 2 to 3 minutes
- Apply 2 layer of 12mm each for best corrosion isolation
- Optional: Apply with QuikControl Chopped Strand Mat or QuikControl Carbon Fiber Repair Tape for strengthening and reinforcement on the repair work

Mixing

Material is supplied in two containers as a unit. Always mix a complete unit in the proportions supplied. Once the unit has been mixed it must be used within the:

- (1) Agitate Base (Part A) with a power agitator.
- (2) Combine entire contents of Curing Agent (Part B) with Base (Part A) and mix thoroughly with power agitator.

Avoid mixing for prolonged periods as heat generated will significantly reduce pot life.

Primed Steelwork

CorSmart® CGE2500 can be applied over approved anti corrosive primers. The primer surface should be dry and free from all contamination and CorSmart® CGE2500 must be applied within the overcoating intervals specified (consult the relevant product data sheet).

Areas of breakdown, damage etc., should be prepared to the specified standard (e.g. Sa2½ (ISO 8501-1:2007) or SSPC-SP10 Abrasive Blasting, or SSPC-SP11, Power Tool Cleaning) and patch primed prior to the application of CorSmart® CGE2500

Weld seams and damaged areas should be blast cleaned to Sa2½ (ISO 8501 1:2007) or SSPC-SP10. If the shop primer shows extensive or widely scattered breakdown overall sweep blasting may be necessary.