

SELECTION & SPECIFICATION DATA

Generic Type	Solventless, three-component, aggregate-filled, cross-linked epoxy.
Description	Carboguard 2012 N is a solventless epoxy surfacer or patching mortar that is used in conjunction with Carboguard 6250 N for nuclear torus lining applications. Carboguard 6250 N is designed to handle exposures inside nuclear containment facilities (Level 1) for both radiation tolerance and film integrity during a loss of coolant accident (LOCA). It is typically applied by broadknife, spatula, trowel, brush, or other suitable tool that allows heavy applications and smoothing procedures.
Features	<ul style="list-style-type: none"> • Solventless, high performance protection • Low to no odor • Easy to apply by hand tools • Excellent chemical resistance • Fast cure • Tough abrasion resistant film • Excellent corrosion protection • Impact resistant • Hi-build application • Low temperature cure (35°F)
Color	Brown (0000)
Finish	N/A
Primer	Self-priming
Dry Film Thickness	Consult Carboline Tech Service
Solids Content	By Volume 99% +/- 1%
Theoretical Coverage Rate	1588 ft ² /gal at 1.0 mils (39.0 m ² /l at 25 microns) Allow for loss in mixing and application.
VOC Values	As Supplied : 7 g/l (0.06 lbs/gal)
Dry Temp. Resistance	Continuous: 250°F (121°C) Non-Continuous: 300°F (149°C) Discoloration and loss of gloss is observed above 200°F (93°C).

SUBSTRATES & SURFACE PREPARATION

General	Surfaces must be clean and dry. Employ adequate methods to remove dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating.
Steel	SSPC-SP10 Surface Profile: 2-4 mils (50-100 microns) minimum or in accordance with project owner's specifications.

MIXING & THINNING

Mixing	Premix each liquid component separately, than add together Part B into Part A and mix until uniform. Then slowly add Part C until homogenous. Kit (1.5 gals total) Part A: 0.75 gal Part B: 0.25 gal Part C: 10.7 lbs
Thinning	Do not thin.
Ratio	Liquid Components: 3:1 Ratio (A to B) Aggregate: 10.7 lbs
Pot Life	60 minutes (large kit) at 80°F (27°C). The pot life ends when the material becomes too viscous to use.

APPLICATION EQUIPMENT GUIDELINES

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

General | This product may be applied using brush, roller, spatula, broad-knife, or trowel.

APPLICATION PROCEDURES

Application	<ol style="list-style-type: none"> 1. Follow mixing instructions above. 2. Use suitable tool (trowel, broadknife, brush, spatula, etc, to apply and smooth mixed material over substrate.) 3. Apply in chine areas, over rivets, lap welds, etc, to minimize sharp edges or smooth out abrupt terminations/transitions. 4. Material will be firm enough for overcoating in 8 hrs @75°F.
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APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	50°F (10°C)	35°F (2°C)	35°F (2°C)	10%
Maximum	90°F (32°C)	110°F (43°C)	110°F (43°C)	80%

This product requires the substrate temperature to be above the dew point. Condensation due to substrate temperatures below the dew point can cause flash rusting on prepared steel and interfere with proper adhesion to the substrate. Special application techniques may be required above or below normal application conditions.

CURING SCHEDULE

Surface Temp.	Dry to Topcoat Minimum	Dry to Topcoat Maximum
70°F (21°C)	0 Minutes	24 Hours
80°F (27°C)	0 Minutes	24 Hours
90°F (32°C)	0 Minutes	12 Hours

Insufficient heat or cooler temperatures will require longer cure times. This product has a very high tolerance for moisture during cure; however excessive humidity or condensation on the surface may cause discoloration and may result in a surface haze. Any haze or blush must be removed by water washing if recoating.

CLEANUP & SAFETY

Cleanup	Use Thinner #2 or Acetone. In case of spillage, absorb and dispose of in accordance with local applicable regulations.
Safety	Read and follow all caution statements on this product data sheet and on the MSDS for this product. Employ normal workmanlike safety precautions.
Ventilation	While this is a solventless epoxy, it is common practice when used as a tank lining or in enclosed areas to circulate the air during and after application until the coating is cured. Minimal protection is needed when proper ventilation is achieved. The ventilation system should be capable of preventing any solvent vapor concentration from reaching the lower explosion limit for any solvents that may be present. User should test and monitor exposure levels to insure all personnel are below guidelines. If not sure or if not able to monitor levels, use MSHA/NIOSH approved supplied air respirator.
Caution	This product may contain flammable solvents if thinned. Keep away from sparks and open flames. All electrical equipment and installations should be made and grounded in accordance with the National Electric Code. In areas where explosion hazards exist, workmen should be required to use non-ferrous tools and wear conductive and non-sparking shoes.

PACKAGING, HANDLING & STORAGE

Shelf Life	*Part A: 24 months at 75°F (24°C) *Part B: 6 months at 75°F (24°C) *Part C: 24 months at 75°F (24°C) *Actual stated shelf life when kept at recommended storage conditions and in original unopened containers.
Storage Temperature & Humidity	40° - 110°F (4° - 43°C) Store indoors. 0-80% Relative Humidity
Shipping Weight (Approximate)	1.5 Gallon Kit 17 lbs. (7.7 kg)
Flash Point (Setaflash)	Part A: >205°F (96°C) Part B: >230°F (110°C)

WARRANTY

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