

**SELECTION & SPECIFICATION DATA**

<b>Generic Type</b>	Solventless, three-component, aggregate-filled, cross-linked epoxy.
<b>Description</b>	Carboguard 695 PM is a solventless, epoxy surfacer or patching mortar that is used to transition between floor-wall chine areas, lap-welded plates, rivets, etc. It is typically used with a reinforced mat system specifically designed to comply with API RP652 for thick-film tank bottom lining repairs. It is suitable for exposures in water, crude oil, aromatic distillates, and unblended gasolines. It is typically applied by broadknife, spatula, trowel, brush, or other suitable tool that allows heavy applications and smoothing procedures.
<b>Features</b>	<ul style="list-style-type: none"> <li>• Solventless, high performance protection</li> <li>• API RP652 Compliant Patching &amp; Coving Mortar</li> <li>• Low-to-no odour</li> <li>• Easy to apply by hand tools</li> <li>• Excellent chemical resistance</li> <li>• Fast cure</li> <li>• Tough abrasion resistant film</li> <li>• Excellent corrosion protection</li> <li>• Impact resistant</li> <li>• Flexural strength 34.5 MPa (&gt;5000 psi)</li> <li>• Hi-build application</li> <li>• Low temperature cure -2°C (35°F)</li> <li>• Approved for use in Potable Water repair systems:</li> <li>• ref: AS4020:2005 #PT-3471/233180</li> </ul>
<b>Colour</b>	Brown / Olive Colour varies with the level of Filler #50
<b>Finish</b>	Gloss (70-85)  (Epoxies lose gloss, discolour and eventually chalk in sunlight exposure).
<b>Primer</b>	Self-priming, or Phenoline 311 as a holding primer
<b>Dry Film Thickness</b>	6350 - 12700 microns (250 - 500 mils) per coat
<b>Solids Content</b>	By Volume 99% +/- 1%
<b>Theoretical Coverage Rate</b>	39.0 m <sup>2</sup> at 25 microns (1588 ft <sup>2</sup> at 1.0 mils) 0.2 m <sup>2</sup> at 6250 microns (6 ft <sup>2</sup> at 250.0 mils) 0.1 m <sup>2</sup> at 12500 microns (3 ft <sup>2</sup> at 500.0 mils) Allow for loss in mixing and application.
<b>VOC Values</b>	<b>As Supplied</b> : 7 g/l
<b>Dry Temp. Resistance</b>	Continuous: 121°C (250°F) Non-Continuous: 149°C (300°F)  Discolouration and loss of gloss is observed above 93°C.

# Carboguard 695 PM

## PRODUCT DATA SHEET



### SUBSTRATES & SURFACE PREPARATION

<b>General</b>	Remove all oil or grease from the surface to be coated with clean rags soaked in Thinner #2 in accordance with SSPC-SP1 (AS 1627.1). For girth weld areas, all burrs, weld slag and other matter shall be removed to achieve a smoother surface prior to blasting. Previously coated surfaces should be degreased in accordance with SP1, and abraded (80 grit) to create a surface profile.
<b>Steel</b>	This material is used to repair steel bottom storage tanks which are typically pitted and may have severe loss of steel. Heavy pits need to be filled in with a suitable putty or resin while other areas may need steel plate over-layment or replacement. Abrasive blast to a Near White Metal Finish in accordance with SSPC-SP 10, (AS 1627.4 Class 2½) and obtain a 75 micron blast profile. If the blasted steel cannot be coated before it begins to flash rust, a holding primer Phenoline 311 should be used.
<b>Concrete or CMU</b>	The concrete must be cured for 28 days (at 24°C/50% R.H. or equivalent) or until the concrete reaches its designated compressive strength. Prepare and clean the surface in accordance with SSPC-SP13/NACE No. 6 guidelines. Test for moisture by conducting a plastic sheet testing in accordance with ASTM D4263.

### MIXING & THINNING

<b>Mixing</b>	Premix each liquid component separately, than add together Part B into Part A and mix until uniform. Then slowly add Filler # 50 until homogenous. 5.66 litre Kit (1.5 gals total) Part A: 2.83 litres (0.75 gal) Part B: 0.94 litres (0.25 gal) Part C: 1.89 litres (10.7 lbs) Filler # 50  The mix above makes the full thick film putty or coving compound. Addition rates of Part C may be varied according to end-use of the mix.
<b>Thinning</b>	<b>Not recommended</b> Thinning is not normally required. Use of thinners other than those supplied or recommended by Carboline may adversely affect product performance and void product warranty, whether expressed or implied.
<b>Ratio</b>	Liquid Components: 3:1 v/v Ratio (A to B) Aggregate: 4.85 kg (10.7 lbs)
<b>Pot Life</b>	60 minutes at 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.

<b>Application Procedure</b>	*This is normally applied using spatula, broad-knife, or trowel. More liquid 'slurry' mixes may be applied by brush or roller. 1. Follow mixing instructions contained in this data page. 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 @ 24°C.
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## APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	10°C (50°F)	2°C (36°F)	2°C (36°F)	10%
Maximum	32°C (90°F)	43°C (109°F)	43°C (109°F)	95%

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 Recoat
2°C (35°F)	48 Hours
10°C (50°F)	24 Hours
24°C (75°F)	8 Hours
38°C (100°F)	4 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 of the fresh material may cause discoloration and may result in a surface haze. Any haze or blush must be removed by water washing recoating.

## CLEANUP & SAFETY

<b>Cleanup</b>	Use Thinner #2 or Acetone. In case of spillage, absorb and dispose of in accordance with local applicable regulations.
<b>Safety</b>	Read and follow all caution statements on this product data sheet and on the MSDS for this product. Employ normal workmanlike safety precautions.
<b>Ventilation</b>	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 vapour 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 suitable approved supplied air respirator.

## PACKAGING, HANDLING & STORAGE

<b>Shelf Life</b>	Part A: 24 months at 24°C Part B: 18 months at 24°C Part C: 24 months at 24°C  *Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers.
<b>Shipping Weight (Approximate)</b>	5.66 Litre (1.5 gallon) Kit - 12 kg
<b>Storage Temperature &amp; Humidity</b>	4° - 43°C 0-80% Relative Humidity

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## PACKAGING, HANDLING & STORAGE

<b>Flash Point (Setaflash)</b>	Part A: >96°C
	Part B: >110°C
	Part C: N/A

<b>Storage</b>	Store Indoors.
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## WARRANTY

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