

SELECTION & SPECIFICATION DATA

Generic Type	Modified phenolic
Description	Phenoline 302 is one of the most resistant topcoats of the Phenoline series for immersion service. It has very good resistance to abrasion, including slurries. After the final cure there is no leaching of resins or catalyst. Excellent general tank lining material because of its overall chemical resistance.
Features	<ul style="list-style-type: none"> • As a lining for tanks holding moderate concentration acids, alkalies, salts or solvents • Excellent tank lining material for acid-solvent and alkali-solvent solutions • Recommended as a heavy-duty maintenance coating for severe exposure to splash, spillage and fumes • Also for protection of floors exposed to chemical spillage • Generally used where other lining systems have proved unsuitable • Fair flexibility • Good weathering • Very good abrasion resistance • May be applied over recommended modified phenolics or catalyzed epoxy primers or surfacers • Not recommended for immersion in strong acids
Color	Black and Charcoal only
Finish	Flat (0-10)
Dry Film Thickness	100 Microns
Solid(s) Content	By Volume 78% ± 2%
Theoretical Coverage Rates	7.8m ² /litre at 100 microns NOTE: Material losses during mixing and application will vary and must be taken into consideration when estimating job requirements.
Dry Temp. Resistance	Continuous: 70°C Non-continuous: 93°C
Temperature Resistance (Immersion)	Immersion temperature resistance is dependent on solution, but should not exceed 82°C. Metal tanks must be insulated when temperatures exceed 60°C.
Topcoats	Normally not required. May be topcoated with Phenoline 305 Finish for colour-coding in non-immersion service.

SUBSTRATES & SURFACE PREPARATION

General	Remove any oil or grease from surface to be coated.
Steel	Apply to clean, dry, recommended primer.
Concrete	Apply over clean, dry, properly primed or surfaced concrete.

Phenoline 302

PRODUCT DATA SHEET



MIXING & THINNING

Mixing	Mix separately, then combine and mix in the following proportions: 5 Litre Kit: Part A: 4 litre Part B: 1 litre
Thinning	Thin up to 25% by volume with Phenoline Thinner NOTE: Use of thinners other than those supplied or approved by StonCor Africa may adversely affect product performance and void product warranty, whether express or implied.
Pot Life	1½ Hours at 25°C and less at higher temperatures. Pot life ends when coating loses body and begins to sag.

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.

Spray Application	Use sufficient air volume for correct operation of equipment. Use a 50% overlap with each pass of the gun. On irregular surfaces, coat the edges first, making an extra pass later.
Conventional Spray	Use 12mm minimum I.D. material hose. Hold gun approximately 300 to 350mm from the surface and at a right angle to the surface. Manufacturer & Gun: Fluid Tip: Air Cap:
Airless Spray	NOTE: This material contains abrasive fillers which will abrade or block tips, and cause wear to other airless equipment parts with prolonged use. Applicators should conduct trials to verify if their airless spray equipment is suitable for use.
Brush	For small areas and touch-up only. Use natural bristle brush, applying with full strokes. Avoid rebrushing.
Roller	Use phenolic core rollers. Pour material out and spread rapidly to required wet film thickness. Maintain wet edge and avoid re-rolling.

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	13°C (55°F)	10°C (50°F)	10°C (50°F)	0%
Maximum	32°C (90°F)	43°C (109°F)	43°C (109°F)	85%
Optimum	23°C (73°F)	23°C (73°F)	23°C (73°F)	50%

Do not apply when the surface temperature is less than 3°C above the dew point.
Special thinning and application techniques may be required above or below normal conditions.

CURING SCHEDULE

Surface Temp.	Dry to Recoat (Max.)	Final Cure	Dry to Recoat
10°C (50°F)	4 Days	28 Days	72 Hours
16°C (61°F)	3 Days	14 Days	36 Hours
25°C (77°F)	2 Days	7 Days	18 Hours
32°C (90°F)	1 Day	5 Days	12 Hours

Force curing is suggested for all tank linings. Excessive film thickness or poor ventilation conditions require longer dry times and in extreme cases may cause premature failure.

If this time is exceeded, special surface preparation will be necessary before recoating. Excessive humidity or condensation on the surface during curing may result in a surface haze or blush; any haze or blush should be removed by water washing before recoating.

Curing Details | Relative Humidity: 50%

CLEANUP & SAFETY

Cleanup | Carboline Thinner # 2

Safety | Read and follow all caution statements on this product data sheet and on the MSDS for this product. Employ normal workmanlike safety precautions, including personnel protection equipment.

Ventilation | Thorough air circulation must be provided during and after application until the coating is cured. The ventilation system should be capable of preventing the solvent vapor concentration from reaching the lower explosion limit for the solvents used. In addition to proper ventilation, fresh air respirators or fresh air hoods must be used by all application personnel. Where flammable solvents exist, explosion proof lighting equipment must be used. Hypersensitive persons should wear clean protective clothing, gloves and/or protective cream on face, hands and all exposed areas.

Caution | This product contains flammable solvents. 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 | 24 Months minimum when stored at 25°C
Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers.

Shipping Weight (Approximate) | **5 Litre Kit:**
Phenoline 302: 7.8kg
Phenoline Thinner: 4.8kg

Storage Temperature & Humidity | 7 to 43°C
0 to 100%

Flash Point (Pensky Martens Closed Cup) | Part A: 49°C
Part B: 12°C
Phenoline Thinner: 25°C

Phenoline 302

PRODUCT DATA SHEET



WARRANTY

To the best of our knowledge the technical data contained herein is true and accurate on the date of publication and is subject to change without prior notice. User must contact Carboline Company to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to Carboline quality control. We assume no responsibility for coverage, performance, injuries or damages resulting from use. Carbolines sole obligation, if any, is to replace or refund the purchase price of the Carboline product(s) proven to be defective, at Carbolines option. Carboline shall not be liable for any loss or damage. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY CARBOLINE, EXPRESS OR IMPLIED, STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. All of the trademarks referenced above are the property of Carboline International Corporation unless otherwise indicated.