

SELECTION & SPECIFICATION DATA

Generic Type	Polyurethane Varnish
Description	Polyurethane coating with perfect impregnating and sealing properties in moist and aggressive environments. Applicable on concrete surfaces and tropical woods. Ideal for concrete moulds made from timber.
Features	<ul style="list-style-type: none"> • One component product • Fast curing at 20°C • It can be applied by Airless- and conventional spray, roller and brush • Brilliant for concrete moulds made from timber
Color	Clear
Finish	Gloss
Primer	Self-priming on timber
Dry Film Thickness	Standard 40 micron
Solid(s) Content	By volume: 58% ± 2%
Theoretical Coverage Rates	14.5m ² /l at 40 micron Allow for loss in mixing and application.
VOC Values	As Supplied : 400 g/l These are nominal values.
Dry Temp. Resistance	Continuous: 93°C (199°F) Non-Continuous: 121°C (250°F)
Topcoats	Not necessary

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.
Wood	Sand the surface, remove all dust from the entire surface with compressed air, which is free of moisture and grease.

MIXING & THINNING

Mixing	Mix carefully until an even consistency is achieved. Avoid excessive air admixture.
Thinning	Spray: may be thinned up to maximum 10% with Thinner 10. Brush and Roller: may be thinned up to maximum 5% with Thinner 10. Use of thinners other than those supplied or recommended by Carboline adversely affect product performance and void product warranty, whether expressed or implied.

Multi-Gard 19-0221

PRODUCT DATA SHEET



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 (General) | The following spray equipment has been found suitable and is available from manufacturers such as Binks, DeVilbiss and Graco.

Conventional Spray | Pressure pot equipped with dual regulators, 3/8" I.D. minimum material hose, 0.052" I.D. fluid tip and appropriate air cap.

Airless Spray | Pump Ratio: 30:1 (min.)*
GPM Output: 3.0 (min.)
Material Hose: 3/8" I.D. (min.)
Tip Size: 0.013-0.017"
Output BAR: 140-162
Filter Size: 60 mesh
*PTFE packings are recommended and available from the pump manufacturer.

Brush & Roller (General) | Multiple coats may be required to obtain desired appearance, recommended dry film thickness and adequate hiding.

Brush | Use a medium bristle brush.

Roller | Use a good quality roller with phenolic core.

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	5°C (41°F)	0°C (32°F)	2°C (36°F)	0%
Maximum	49°C (120°F)	49°C (120°F)	49°C (120°F)	90%

Substrate temperatures should be 3°C above the dew point. This product is moisture sensitive in the liquid stage and until fully cured. Protect from high humidity, dew and direct moisture contact until fully cured. Application and/or curing in humidity above maximum, or exposure to moisture from rain or dew may result in a loss of gloss.

CURING SCHEDULE

Surface Temp.	Dry to Touch	Dry to Handle	Dry to Recoat
20°C (68°F)	30 Minutes	3 Hours	6 Hours

These times are based on a 40 microns dry film thickness and 50% relative humidity. Higher film thickness, insufficient ventilation, high humidity or cooler temperatures will require longer cure times and could result in solvent entrapment or premature failure.

CLEANUP & SAFETY

Cleanup | Use Thinner 10 or Thinner. 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. Hypersensitive persons should wear protective clothing, gloves and use protective cream on face, hands and all exposed areas.

CLEANUP & SAFETY

Ventilation	When used in enclosed areas, thorough air circulation must be used 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. 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 respirator.
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, workers should be required to use non-ferrous tools and wear conductive and non-sparking shoes.

PACKAGING, HANDLING & STORAGE

Shelf Life	24 months at 75 °F (24 °C) *Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers.
Shipping Weight (Approximate)	<u>5 Liter</u> 8 Kg
Storage Temperature & Humidity	41-104°F (5-40°C) 0-90% Relative Humidity
Flash Point (Setaflash)	30°C
Storage	Store Indoors.

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 to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. Carboline warrants our products to be free of manufacturing defects in accord with applicable Carboline quality control procedures. THIS WARRANTY IS NOT VALID WHEN THE PRODUCT IS NOT: (1) APPLIED IN ACCORDANCE WITH CARBOLINE'S SPECIFICATIONS, AND/OR (2) PROPERLY STORED, CURED, AND USED UNDER NORMAL OPERATING CONDITIONS. Carboline assumes no responsibility for coverage, performance, injuries, or damages resulting from use of the product. If this product is found not to perform as specified upon inspection by a Carboline representative during the warranty period, Carboline's sole obligation, if any, is to replace the Carboline product(s) proven to be defective or refund the purchase price thereof, at Carboline's sole option. Carboline shall not be liable for any other losses or damages. This warranty excludes (1) labor and costs of labor for the application or removal of any product, and (2) any incidental or consequential damages, whether based on breach of express or implied warranty, negligence, strict liability or any other legal theory. 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. The whole text of this Product Data Sheet, as well as the documents derived from it, have been written in English, and for legal purposes the English version shall prevail.