

SELECTION & SPECIFICATION DATA

Generic Type	Epoxy primer for damp concrete
Description	Carboseal 740 Damp Proof Membrane (DPM) is a high solids epoxy primer that has excellent resistance to moisture. This outstanding moisture tolerance allows for installation of Carboseal systems on concrete that has a relative humidity of up to 100%.
Features	<ul style="list-style-type: none"> • Reduces project time scale, allows early installation of floor finishes • Excellent adhesion to concretes and screeds • Tolerates up to 100% relative humidity in the concrete or screed substrate • Easy to apply • Ultra low VOC • Low Odor • Flows easily filling small cracks and fissures • Optional contrasting color coats allows for visual control of the membrane uniformity in laying
Color	Clear (0000) Red (Q500) and Yellow (Q600) optional
Recommended Thickness	8 mils (203.2 microns)
Coverage Rate	200 sq.ft (18.6 sq.meters) per gallon at 8 mils (203.2 microns)
VOC Values	As supplied 0.08 lbs/gal (10 g/L)

SUBSTRATES & SURFACE PREPARATION

Concrete	<p>Concrete shall be designed, placed, cured, and prepared per NACE No. 6/SSPC-SP 13, latest edition. Abrade to remove all laitance, loose concrete, etc. and to create surface profile in accordance with ICRI CSP 2-4. Concrete or screed substrate should be a minimum of 3,625 psi and free from rising ground water pressure. The substrate should be surface dry before the application of Carboseal 740 DPM.</p> <p>The surface profile and levels should be appropriate for the system to be applied. A light shot blasting should be employed to remove laitance. Irregularities, damage and cracks are filled with epoxy filler. All residues must be removed to provide a dry, dust free open textured surface.</p> <p>Please note that new concrete must reach a tensile strength of 360 psi before it can be prepared without damaging the slab upon preparing the substrate.</p> <p>Contact Carboline Technical Service for advice if there are impurities, such as oils etc., in the concrete. Check the relative humidity of floors at ground level. Follow our instructions for connections to grid drains, cesspools, pipes and pipe inlets.</p>
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Carboseal™ 740 DPM

PRODUCT DATA SHEET



PERFORMANCE DATA

Test Method	Results
Bond Strength	Greater than cohesive strength of 3,625 psi concrete, > 220 psi
Compressive Strength (ASTM C579)	7,250 psi
Flexural Strength (ASTM C580)	2,900 psi
Tensile Strength (ASTM C307)	2,175 psi
Vapor permeability (ASTM E96:90)	5gms / m ² / 24 hrs
Water Permeability (Karsten test [impermeable])	Nil

The figures above are typical properties achieved in laboratory tests at 68 °F (20 °C) and at 50% Relative Humidity.

MIXING & THINNING

Mixing | Add Carboseal 740 DPM Hardener B to Carboseal 740 DPM Base A. Mix with slow speed drill and helical spinner, taking care not to entrain air.
Note: Carboline products are often multiple-component systems. Poor mixing, or incorrect mixing procedures, can result in irregular and incomplete hardening, which in turn can result in an inferior final result.

Ratio | 2:1 (A to B)

Working Time | 30 min at 75 °F (24 °C)

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** |
- Rubber squeegee
 - Shed resistant short nap roller

APPLICATION PROCEDURES

General | Apply the first coat using a rubber squeegee and a shed resistant short nap roller. Leave to harden until a tack free surface is achieved (between 12-18 hours depending on ambient temperature). Apply the second coat within 24 hours using a rubber squeegee and a shed resistant short nap roller. Highly filled, troweled cement-based products can be applied straight onto the wet second coat of Carboseal 740 DPM.

Broadcast | A sand scatter is required for screed finishes, or when soft flooring adhesive is applied. If a free flowing epoxy coating is to be applied within 24 hours, the sand scatter stage may be omitted. Sand Broadcast required for mortar finishes:
For a resin mortar: dry Silica Sand/Quartz grade 12-20 mesh at approx. 0.1 lbs/ft² (0.5 kg/m²)
For a cement mortar: dry Silica Sand/Quartz grade 12-20 mesh at approx. 0.4 lbs/ft² (2 kg/m²)

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	60°F (16°C)	50°F (10°C)	60°F (16°C)	0%
Maximum	80°F (27°C)	80°F (27°C)	80°F (27°C)	90%

The temperature of the substrate should NOT exceed the dew point by 5 °F (3 °C) during application and hardening. **Temperatures should not fall below 40 °F (4.4 °C) in the 24 hours after application.**

CURING SCHEDULE

Surface Temp.	Dry to Topcoat Maximum	Minimum Recoat Time	Final Cure
70°F (21°C)	3 Days	10 Hours	7 Days

If the maximum recoat time is exceeded abrade the surface prior to applying another coat. An aggregate broadcast extends the recoat window indefinitely. At lower temperatures cure time will be longer. Complete cure takes 7 days.

CLEANUP & SAFETY

Cleanup | Clean tools immediately with acetone or MEK.

Safety | Read and follow all caution statements on this product data sheet and on the SDS for this product. Employ normal workmanlike safety precautions. Use adequate ventilation. Keep container closed when not in use.

PACKAGING, HANDLING & STORAGE

Packaging | **3 Gallon Kit:**
Carboseal 740 DPM Base A - 2 gal (7.6 liters)
Carboseal 740 DPM Hardener B - 1 gal (3.8 liters)
12 Gallon Kit:
Carboseal 740 DPM Base A - 8 gal (30.3 liters)
Carboseal 740 DPM Hardener B - 4 gal (15 liters)

Shelf Life | 12 months in unopened container

Storage Temperature & Humidity | 40-100 °F (4-38 °C)

Shipping Weight (Approximate) | 3 Gallon Kit - Approx. 33 lbs (15 kg)
12 Gallon Kit - Approx. 122 lbs (55 kg)

Flash Point (Setflash) | Part A: >392 °F (200 °C)
Part B: >212 °F (100 °C)

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.