

Dampseal 101

2-Component Epoxy Sealer



Commercial Product Data Sheet

Description

Dampseal 101 is a deep penetrating, low viscosity, 100% solids, two-component epoxy sealer designed to provide excellent adhesion to suitably prepared concrete substrates. Sealers containing solvents (or water) fill the voids in the concrete initially, but upon evaporation of the solvent (or water) these sealers leave voids only partially filled. Filling these voids, Dampseal 101 forms a barrier to diminish "out gassing", a cause of blistering and delamination of subsequent coatings or coverings. Dampseal 101 also strengthens the concrete by penetrating into its surface.

Uses

Dampseal 101 provides a sealer that performs under adverse weather conditions on suitably prepared substrates. Even when applied to damp substrates such as dew coated concrete, Dampseal 101 has outstanding adhesion. Its low sensitivity to humidity makes Dampseal 101 especially suitable for sealing concrete. Dampseal 101 can be applied on concrete within one week of casting, as long as the surface is free of laitance.

Advantages

- Outstanding adhesion on damp substrates such as dew covered or damp concrete
- Low viscosity for maximum penetration and 100% solids to fill voids completely
- The capability to seal recently cast concrete provided the surface is treated to eliminate laitance and release agents

Instructions for Use

Surface Preparation

Surfaces must be free of dust, loosely adhering particles, oil, grease and previously applied incompatible coatings. All traces of release agents must be removed from cast concrete surfaces. Concrete surfaces may be coated with Dampseal 101 as soon as 7 days after casting.

Once the Dampseal 101 has been applied to a specific area AND the Dampseal 101 is still wet, broadcast sand over the Dampseal 101, completely covering the surface. Once cured (1-2 hours), brush or blow excess sand off the surface and apply the second coat.

To avoid excessive penetration on porous substrates, such as cellular light weight concrete, apply Sealoment Plus at 300-ft./50-lb. bag prior to sealing with Dampseal 101.

Refer to the Sealoment Plus product data sheet for mixing and application information.

Mixing

DO NOT BLEND DAMPSEAL 101A AND DAMPSEAL 101B IF THEY HAVE BEEN STORED ABOVE 80°F OR IN DIRECT SUNLIGHT.

BLENDING DAMPSEAL 101A AND DAMPSEAL 101B WHEN THEY ARE ABOVE 80°F WILL RESULT IN RAPID GELLATION.

Mix Dampseal 101A in its original container with a spiral-mixing blade on a low-speed electric drill. Slowly add the proper quantity of Dampseal 101B and mix five minutes. Avoid mixing air into the material.

MUST BE APPLIED WITHIN THIRTY MINUTES OF MIXING. *ONCE THE 2 COMPONENTS ARE MIXED, IMMEDIATELY POUR MIXTURE ONTO SURFACE TO AVOID ACCELERATED CURING.*

Application

FOR BEST RESULTS, DAMPSEAL 101 SHOULD BE APPLIED TOWARDS THE END OF THE DAY, WHEN THE CONCRETE IS IN THE COOLING PHASE.

Apply Dampseal 101 with a 1/2" roller in two applications. Apply the first coat at a rate of 200 sq.ft./gal. to completely fill the pores. Immediately after applying, using the same roller with no additional material, redistribute the first coat to refill any depressions formed by absorbed material. Broadcast sand over the wet Dampseal101, completely covering the surface. Allow to cure a minimum of 1-2 hours. Once dry, brush or blow excess sand off the surface and apply a second coat of Dampseal 101 at approximately 200 sq.ft./gal.

It is recommended that all concrete be tested for moisture content prior to application of Sealoflex Products. Structural concrete moisture should be <8%. Cellular Lightweight concrete moisture should be <19%. If there is any doubt as to the correct method of surface preparation, please contact the Sealoflex Technical Department for specific recommendations.

Coverage

100 to 150 sq. ft./gal.

NOTE: When properly applied and cured Dampseal 101 can resist vapor pressures within the concrete. The concrete strength must exceed these pressures as well, or substrate failure may occur

Dampseal 101

CAUTION!

If there is an impermeable layer within or below the concrete surface, contact the Sealoflex Technical Department for Application Requirements.

Precautions

- Keep away from open flames and high heat.
- Avoid breathing vapors
- Use with adequate ventilation
- Irritant. Avoid skin and eye contact. Safety glasses and chemical-resistant gloves recommended.

Packaging

ONE-GALLON KIT

101A-5.7 lbs. in 1 gal. plastic pail

101B-3.4 lbs. in a 1/2 gal. plastic pail

Cleaning

Clean all tools and equipment with mineral spirits. Cured material can only be removed mechanically.

FIRST AID:

In case of contact with skin, immediately remove contaminated clothing and shoes and wash affected areas thoroughly with large amounts of water and soap for at least 15 minutes. Get immediate medical attention.

For eye contact, immediately flush eyes with large quantities of clean running water for at least 15 minutes while holding eyelids apart. Seek immediate medical attention.



Pour Dampseal 101™ directly from bucket onto surface



Roll onto surface immediately.



Broadcast sand into Dampseal 101™

Physical and Mechanical Properties

Property (as Manufactured)	Value		
Type	Two Component Epoxy Resin		
Shelf Life and Storage Conditions	18 months if unopened & stored between +45°F & 80°F <i>Do Not Allow To Freeze</i>		
Pot Life	30 minutes		
Application Temperature	+40°F to 95°F (Ambient)		
Curing Rate at Ambient Temperatures ¹	Temp	Tack-free	Full Cure
¹ If the concrete surface is at a considerably lower temperature than atmospheric temperature, the cure rate may be significantly longer.	40°F	11 hours	> 24 hours
	60°F	7 hours	10 hours
	75°F	3 hours	4 hours
	95°F	2 hours	3 hours
Gel Time at Ambient Temperatures	40°F	11 hours	
	60°F	7 hours	
	75°F	3.5 hours	
	95°F	1.5 hours	
Mix Viscosity at 75°F	~2000cps		
Cross Cut Adhesion (ASTM D3359):	4		

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