



CAL551-102: PRIMER/SEALER

Low Viscosity Penetrant For Sealing Concrete

PRODUCT PROFILE

DESCRIPTION	CAL551-102 100% solids Low Viscosity Penetrant designed for sealing concrete.	
	CAL551-102 Primer/Sealer is an ideal coating to:	
	<ul style="list-style-type: none">• Help prevent outgassing• Improve capability of top coats to cover micro-fracturing of concrete• Improve top coat to concrete bonding	
TYPICAL APPLICATIONS	Concrete Floors Concrete Walls	Secondary Containment Structures Foundations

TECHNICAL DATA

PHYSICAL PROPERTIES	Specific Gravity	Resin: 1.08	Hardener: 0.94
	Flash Point	≥ 250° F (121° C)	
	Volatile Organic Compounds (VOC)	0 grams/liters	
	Elongation Tensile Strength	15%	
	Color	Light Amber	
	Weight Per Gallon	9.41lb.	
	Recommended Thickness	3 - 5 mils	
	Coverage @ 2 mils	400 square feet (37.2 sq. meters)	
	Severe Porosity	6 - 9 mils	
	Container Size	Pint, Quart, Gallon	

APPLICATION PREPARATION

SURFACE PREPARATION	<p>Concrete: Concrete should be aged at least 28 days before coating and the surface should be clean, dry and free of form-release agents, silicone water proofers, floor wax and/or curing agents.</p> <p>Sand blast, scarify or etch the surface with muriatic acid (15% HCL, not to exceed 20%), using one gallon per 60-75 square feet.</p> <p>Wash down old concrete to remove all residues and neutralize the pH before blasting or scarifying.</p> <p>For severe service, a second wash is recommended. Test the surface dropping a bead of water on the area to be coated. The drop of water will be absorbed into the concrete if the floor is cleaned and ready for coating application. If the bead of water remains on the surface and is not absorbed, the surface is not ready.</p>
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Tile: If the surface to be coated is covered with tile, insure the tile surface is cleaned and all contaminants are removed. A light sanding will improve the bonding of the primer/sealer.

Wet-mop the sanded area to remove dust and loosened material. If the tile is contains asbestos, do not sand or scarify. Use a liquid detergent, TSP or baking soda to clean tile.

If previous acid spills are suspected, a test should be made to determine if the bond between the tile and the substrate has not been affected.

MIXING PROCEDURES

Note: Do not mix partial kits. The ratio of hardener to resin is critical. If the ratio is changed the primer/sealer may not cure properly.

Thoroughly mix the resin before adding the hardener. CAL551-102 is 100% solids and contains materials with high specific gravity.

Empty the entire amount of hardener into the resin container.

Mix thoroughly - until uniform in consistency - then continue to mix for an additional 2 to 3 minutes.

Pay special attention to the bottom and sides of the container to insure complete mixing. If you don't mix it well you will have a sticky application with an extended curing time.

Due to the high viscosity of this product, a mechanical mixer is preferred. Use a low speed and keep the mixing blade down in the product to avoid entrapping air. If mixing by hand, use a square-cornered, flat implement, such as a standard paint stirring stick.

APPLICATION PROCEDURE

THINNING

If thinning is necessary, especially at temperatures lower than 60° F (16° C), add 4 to 6 fl. oz. (118 to 177 ml) of MEK to the resin and mix thoroughly before adding the hardener.

Note: Do not exceed 10% solvent by volume. Read the Material Safety Data Sheet for MEK (flammable liquid) before using it.

POT LIFE

AMBIENT TEMPERATURE

TIME

50° F (10° C)
75° F (24° C)
92° F (33° C)

28 hours
4 hours, 10 minutes
1 hour, 30 minutes



Do not keep the blended coating in the original container unless immediate use is planned. Pour the coating into a paint roller tray, large aluminum basting pan or directly on the floor.

Try to keep the depth of the coating in the tray below 3/8". Otherwise, exothermics, heat created during the curing process, will considerably shorten the pot life.

**CURE TIME
(at 70° F or 21° C)**

Re-coat Window	5 – 12 hours (Tacky)
Touch Free	12 – 15 Hours*
Full Cure	7 days

* Note: Fast Cure and Winter formulas available.

**ORDERING
INFORMATION**

For additional information, prices or to place an order, contact Calicorp or your Calicorp representative.

If you do not know the name of your Calicorp representative, call 888-BATT-MAT (888-228-8628) for more information. You can view our product descriptions and reference information at our web site www.calicorp.com

MATERIAL SAFETY DATA

**HAZARDOUS
INGREDIENTS**

RESIN	HARDENER
Novolac Resin CAS #28064-14-4 20-50%	Polyamide CAS #68410-23-1, 40% or less
Exposure limits: TLV PEL: none established	
Bisphenol A CAS #25085-99-8 40-70%	Polyamide Amine CAS #647-754-99-0 40% or less
	Modified Polyamine, CAS #(Trade Secret) 30% or less
	Exposure limits: no established limit, irritant

PHYSICAL DATA

	RESIN	HARDENER
Specific Gravity	1.08	0.93
% Volatiles by volume	Nil	< .5%
Appearance/Odor	Light Amber	Brown/Slight sweet odor
Melting Point	< 0 degrees F (-18° C)	< 0 degrees F (-18° C)
Solubility in Water (% by weight)	Negligible	Negligible
pH	ca 5	ca 10



FIRE AND EXPLOSION DATA

	RESIN	HARDENER
Flash Point	> 300o F (149o C)	> 200o F (93o C)
Extinguishing Media	Carbon Dioxide, foam, dry chemical	
Special Procedures	Use a self-contained breathing apparatus.	

NOTE: decomposition and combustion products may be toxic

HEALTH AND HAZARD INFORMATION

	RESIN	HARDENER
Inhalation	LC ₅₀ (rabbits): 6000 mg/kg	LC ₅₀ : possible respiratory irritant if atomized
Skin Contact	LD ₅₀ (rabbits): 4000 mg/kg	Possible irritant, dermatitis in extreme
Eye Contact	Irritating	Severe Irritant
Ingestion	LD ₅₀ (rabbits): 4000 mg/kg	LD ₅₀ (rats): 3000 mg/kg
Acute Overexposure	Irritation, possible sensitization	Irritation, possible sensitization, nausea
Chronic Overexposure	Skin sensitization, dermatitis	Skin sensitization, may be corrosive

EMERGENCY FIRST AID PROCEDURES

	RESIN	HARDENER
Ingestion	If large amounts are ingested, induce vomiting if conscious.	Call physician immediately. Give generous amounts of water if conscious. Do not induce vomiting.
Inhalation	Remove to fresh air. Give oxygen if breathing is difficult.	
Eyes	Immediately flush eyes with water for 15 minutes. Call physician.	
Skin	Promptly wash with mild soap and water.	

REACTIVITY DATA

	RESIN	HARDENER
Conditions contributing to instability	Stable	Do not heat in bulk as dangerous decomposition may occur, liberating toxic fumes.
Hazardous Decomposition Products	Carbon Monoxide, Carbon Dioxide, Phenolics	Carbon Monoxide, Carbon Dioxide, Phenolic Nitrogen Oxides and Compounds
Conditions Contributing to Hazardous Polymerization	Will not occur	Heating in bulk
Incompatibility	Strong oxidizers, strong acids and bases	

DISPOSAL OR SPILL PROCEDURES

	RESIN	HARDENER
Aquatic Toxicity	Not available at this time	Not available at this time
Steps to be taken if material is spilled	Shovel into closeable container for disposal.	Absorb into sand or other absorbent material. Shovel into closeable container and dispose of in professional manner.
Waste Disposal Method	Not considered hazardous under RCRA (40CFR 261) Dispose according to state, federal and local regulations.	



SPECIAL PROTECTION MEASURES

Ventilation Requirements	Good general mechanical ventilation and local exhaust
Specific Personal Protective Equipment	Organic chemical cartridge respirator if needed in non-vented area
Eyes	Splash-proof chemical goggles
Gloves	Impervious gloves
Other	Appropriate equipment to prevent probability of skin and eye contact.

SPECIAL PRECAUTIONS

Can cause irritation; wear protective skin and eye equipment.
Do not heat in bulk; dangerous decomposition may occur, liberating toxic fumes.

This product is not regulated by the DOT and is not considered a hazardous waste under the RCRA.

MSDS information provided by the manufacturer.
Please call Calicorp for additional information regarding this product or its application

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