

OVERVIEW & FEATURES

Chem-Screen Primer is a two-component 100% urethane/epoxy hybrid coating used as the primer for Chem-Screen Top Coat. This product is a flexible, novolac primer/sealer with increased toughness and elongation.

100% Solids – Reduces the amounts of solvent used over traditional primers.

VOC Compliant – Chem-Screen Primer has zero pounds of solvent per gallon. It can be sold anywhere in the country because it applies to all VOC regulations.

APPLICATION

Product Storage – Continuous storage should be between 60°- 90°F (15° - 32°C). Low temperatures or extreme temperature fluctuations may cause crystallization. Before use, bring the product to room temperature.

Surface Preparation – The most suitable preparation would be a fine brush blast (shot blast) to remove all debris. All dirt, foreign contaminants and oil must be removed to assure a trouble-free bond to the substrate. A vapor emission test should be performed to test for vapor drive (<https://www.humboldtmg.com/vapor-emission-test-kit.html>). For moisture testing, at least one test shall be performed for each 1000 ft² of floor surface to be treated. Another testing method prior to installation to make sure concrete is dry, place a 4' x 4' (1.22 m x 1.22m) plastic sheet on the substrate and taping down the edges. After 24 hours, if the substrate under the plastic is still dry, then the substrate is dry enough to start coating. The plastic sheet test is also a good way to determine if hydrostatic pressure problems exist that may later cause disbonding.

Product Mixing – This product has a mix ratio of 9.05# part A to 4.35 part B or two parts A to one part B by volume. Standard packages are in premeasured kits and should be mixed as supplied in the kit. We highly recommend that the kits not be broken down unless suitable weighing equipment is available. After the two parts are combined, mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak free. After mixing, transfer the mixed material to another pail (the transfer pail) and again remix. The material in the transfer pail is now ready to be applied on the substrate. Improper mixing may result in product failure.

Priming – Primers may be beneficial in some applications, dependent on performance characteristics and substrate conditions, but none are required for product application.

Product Application – The mixed material can be applied by brush or roller. However, the material can also be applied by a suitable serrated squeegee and then back rolled as long as the appropriate thickness recommendations are maintained. Maintain temperatures and relative humidity within the recommended ranges during the application and curing process. If concrete conditions or over aggressive mixing causes air entrapment, then an air release roller tool should be used prior to the coating tacking off to remove the air entrapped in the coating.

Recoat or Topcoating – Be sure that the primer has tacked off before recoating. Colder temperatures will require more cure time. Before topcoating, check the coating to ensure no epoxy blushes (a whitish, greasy film or deglossing) have developed. If a blush is present it must be removed with a standard detergent cleaner. ChemScreen Top Coat as well as other suitable epoxy coatings and urethanes are compatible for use as a topcoat.

Clean Up – Use xylol.

Floor Cleaning – Caution! Some cleaners may affect the color of the floor installed. Test each cleaner in a small area, utilizing your cleaning technique. If no ill effects are noted, you can continue to clean with the product and process tested.

PRECAUTIONS

- Use with adequate ventilation.
- Avoid contact with eyes, skin and clothing, wear gloves or protective creams — if skin contact occurs, wash at the first opportunity with soap and water.
- Eye exposure or inhalation can result in serious medical problems — in the event of eye contact, immediately flush eyes with water and contact a physician.
- Keep out of the reach of children
- For industrial use only.

CHEM-SCREEN® PRIMER



Technical Data	Chem-Screen Primer
Flexural Strength (ASTM D 790)	4,035 psi
Tensile Strength (ASTM D 638)	3,150 psi
Hardness Shore D	70
Non-Volatile Content % by weight % by volume	100 100
Shelf Life	1 year, unopened
Recommended Film Thickness	10 - 50 mils
Coverage Rate	32 - 160 ft ² /gal
*Curing Schedule (70°F) Pot Life (1.5 gal.) Tack Free Recoat/Topcoat Light Foot Traffic Full Cure	20 - 30 minutes 7 - 9 hours 7 - 10 hours 24 hours 2 - 10 days
Packaging (Kit)	3 gallon (11.4 L) 15 gallon (56.8 L)

*Time varies depending on air temperature and humidity.

For specific recommendations and coverage rates, please contact your local Garland Representative or Garland Technical Service Department.

Eco-Facts	Chem-Screen Primer
VOC	TK g/L

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Tests verified by independent laboratories. Actual roof performance specifications will vary depending on test speed and temperature. Data reflects samples randomly collected. ± 10% variation may be experienced. The above data supersedes all previously published information. Consult your local Garland Representative or the home office for more information.