



GacoFlex[®]
by Gaco Western[®]

E5990 100% Solids Two-Component Epoxy Sealer

Specially formulated to seal concrete and greatly reduce out-gassing.

GacoFlex E5990 is a 100% solids two-component penetrating epoxy sealer that offers excellent penetration into concrete and masonry surfaces to form a tight bond to the substrate. It is designed specifically for use in conjunction with concrete and masonry decking applications, and contains very low VOCs.

- Seals concrete and masonry to mitigate vapor drive resulting from high ground water table or capillary action, and also helps reduce any gas transmission that may occur during rising temperatures.
- Helps prevent pin-holes, blistering and delamination of the top coat caused by vapor drive and out-gassing.
- Applies quickly and easily – simply combine the two components, mix thoroughly and pour the primer onto the specified coverage area, use a squeegee to spread the product, and then back roll to help ensure uniform coverage.



CAUTION
HIGH TEMPERATURE

POT LIFE

GacoFlex E5990 is a two-component product with a pot life of 8 minutes @ 77°F (25°C) if left in the original container. Pot life will be less at higher temperatures. Because combined product will generate excessive heat if left in the container, material must be poured out and applied before the product begins to react and thicken.



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GacoFlex E5990

100% Solids Two-Component Epoxy Sealer | April 2014

DESCRIPTION	GacoFlex E5990 is a 100% solids* two component penetrating epoxy sealer which forms a tight bond to concrete substrates and cures to form a clear hard continuous film.	
USAGE	GacoFlex E5990 is intended as an optional sealer in Gaco Western decking applications. This penetrating sealer is specifically formulated for use on concrete and masonry that is 21 or more days old to mitigate vapor drive and help reduce out-gassing that may occur during rising temperatures.	
COLOR	Part A is clear. Part B is yellow. Combined product is a slightly yellow, clear film.	
CONSISTENCY	Both components are a slightly viscous liquid.	
APPLIED PRODUCT DATA	**Results are based on internal testing. External tests by third party labs are pending.	
WEATHERABILITY	Not designed for continuous exterior exposure. Must be coated with GacoFlex E5320 2-Part Epoxy Primer/Filler, followed by a UV-resistant topcoat such as GacoFlex U64 or GacoFlex U66.	
CHEMICAL RESISTANCE	Excellent solvent and alkali resistance and good acid resistance.	
HARDNESS	ASTM D2240 Shore A	100 Shore** (Coating requires 24 hours to achieve maximum hardness.)
ADHESION	Adheres to most surfaces however GacoFlex E5990 must be coated with GacoFlex E5320 before any other top coat is applied.	
WATER VAPOR PERMABILITY	ASTM E96 Procedure B 50% R.H. Difference	0.10 Perms**
TOXICITY	Not suitable for contact with edible substances or potable water.	
FLAMMABILITY	Non-Flammable	
PACKAGED PRODUCT DATA		
THEORETICAL COVERAGE	When applied to concrete that has been shot blasted or ground to a CSP 2 (concrete surface profile) one gallon of combined product will cover 190 square feet. When concrete is prepped to CSP 3, one gallon of combined product will cover 150 square feet.	
SOLIDS	100%* by Weight / 100%* by Volume (*nominal solids)	
VOC	20 grams per liter	
FLASH POINT	Part A > 200°F	Part B > 200°F
STORAGE STABILITY	One year. Protect from freezing in shipment and storage.	
APPLICATION		
MIXING	Mix one container of Part B into a short-filled container of Part A (i.e. mix one quart Part B into short-filled one gallon container of Part A; or one gallon Part B into a short-filled five gallon container of Part A). Scrape sides of container to ensure that all of Part B is emptied into the Part A container. Mix combined product for two minutes with a power mixer and a jiffy-type blade. Immediately empty entire contents out onto specified coverage area.	
POT LIFE	The pot life of this product is 8 minutes @ 77°F (25°C) if left in the original container. Pot life will be less at higher ambient temperatures. Combined product will generate excessive heat if left in the container. Material must be poured out of container before gelation occurs. IMPORTANT: If product is left in container it will reach a very high temperature and be dangerous to handle.	
THINNING	Do not thin product.	
APPLICATION	Acceptable substrates for this product are concrete and masonry at least 21 days old. Substrates should be clean and dirt free. Concrete must have a CSP 2 or 3. Any CSP greater than 3 will require special permission from Gaco Western. Use a squeegee to spread product over coverage area and then back roll over entire area to ensure uniform coverage. Do not apply product if substrate is below 50°F (10°C) or above 110°F (43°C). Refer to Safety Data Sheet for proper PPE.	
DRY TIME/CURE	Once product is applied, it will be fully cured in 3 to 6 hours depending on substrate temperature and ambient temperature. As soon as it is hard enough to walk on, GacoFlex E5990 may be coated with GacoFlex E5320 per instructions below.	
APPLICATION OF TOP COATS	Apply GacoFlex E5320 at a rate of approximately 1 gallon per 400 square feet (4 wet mils) over GacoFlex E5990 as soon as it is thoroughly dry. This level of dryness can be achieved in as little as two hours but may require as long as six hours depending on temperature. Note: Application rate for GacoFlex E5320 will vary depending on surface texture, additional material may be required to achieve 4 wet mils. After application, allow GacoFlex E5320 to cure overnight prior to coating with an appropriate GacoFlex polyurethane elastomeric topcoat.	
CLEAN UP	Clean up application tools and equipment promptly with acetone or xylene. IMPORTANT: Unused product that remains in the container will reach a very high temperature and be dangerous to handle, as will any remaining product that is left on squeegee or roller.	
For specific Safety and Health information please refer to the Safety Data Sheet.		

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Gaco Western is a recognized leader in innovative silicone roofing systems, and offers best-of-class waterproofing and insulation solutions for a variety of commercial, industrial and residential applications. Founded in 1955, Gaco Western remains today a family-owned business with its roots in technology and product innovation.