Gaco™

Product Data Sheet (PDS):

GacoFlex E5990
Revised: 04/2022

GACOFLEX™ E5990
100% SOLIDS TWO-COMPONENT EPOXY PRIMER / SEALER

A. 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.

B. RECOMMENDED USE:

GacoFlex E5990 is intended as an optional sealer in Gaco decking applications. This penetrating sealer is specifically formulated for use on concrete and masonry to mitigate vapor drive and control out-gassing that may occur during rising temperatures.

C. PACKAGED PRODUCT DATA:

PROPERTY	*DESCRIPTION*
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
THEORETICAL COVERAGE	When applied to concrete that has been shot blasted or ground to a CSP 2 (concrete surface profile) 1 gal (3.8 L) of combined product will cover 190 ft² (17.7 m²). When concrete is prepped to CSP 3, 1 gal (3.8 L) of combined product will cover 150 ft² (13.9 m²).
SOLIDS	Weight: 100 % **nominal solids* Volume: 100 % **nominal solids*
STORAGE STABILITY	One year when in unopened / sealed container NOTE: Protect from freezing in shipment and storage
TOXICITY	Not suitable for contact with edible substances or potable water
V.O.C.	20 g / L
FLASH POINT	Part A > 200 °F (93.3 °C) Part B > 200 °F (93.3 °C)
CURE TIME	Twenty-four (24) hours to achieve maximum hardness

D. APPLIED PRODUCT DATA:

PROPERTY	*TEST*	*REQUIREMENT*	*RESULT*
ADHESION	Adheres to most surfaces and must be coated with GacoFlex E5320 before any top-coat is applied.		
CHEMICAL RESISTANCE	Excellent solvent and alkali resistance and good acid resistance.		
WEATHERABILITY	Not designed for continuous exterior exposure. Prime with GacoFlex E5320 2-Part Epoxy Primer / Filler, followed by a UV-resistant topcoat such as GacoFlex U64 or GacoFlex U66.		

HARDNESS (CURED)	ASTM D-2240	100 Shore	Pass
WATER ABSORPTION	ASTM D-471	4.0 % Max.	Pass
WATER VAPOR PERMEABILITY	ASTM E96 Procedure B 50 % R.H. Difference	0.10 Perm	Pass

E. APPLICATION:

STEP	INSTRUCTIONS
THINNING	Do not thin product.
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 1 gal (3.8 L) container of Part A; or 1 gal (3.8 L) Part B into a short-filled 5 gal (18.9 L) 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 (2) 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 eight (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. WARNING: If product is left in container, it will reach a very high temperature and be dangerous to handle
APPLICATION	Acceptable substrates for this product are concrete and plywood. 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. 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
TOP-COATING	Apply GacoFlex E5320 at a rate of approximately 1 gal / 400 ft² (3.8 L / 37.2 m²) to achieve 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. WARNING: 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.*