

AC TECH 2170 FC EPOXY PRIMER PRODUCT DATA SHEET



IMPERMITEK
Advanced Seamless Technologies



PRODUCT & APPLICATION TOOLS



PRODUCT CODE	UNIT SIZE	APPROXIMATE *COVERAGE
122001K	2.4 gal (9.1 L)	300 ft ² (± 27.9 m ²)

DESCRIPTION

The AC TECH 2170 FC Epoxy Primer is a multi-functional 100% reactive solids moisture mitigation and alkalinity pH barrier primer for use with Impermitek's IR-26 and IR-Eco Resins.

The AC TECH 2170 FC Epoxy Primer is suitable for use on structural concrete, lightweight structural, and masonry substrates subject to adhesion testing.

FEATURES

- Low odor VOC compliant
- Can be overcoated in >4 hours
- Provides protection up to 99% RH & 14 pH

STORAGE

Always store closed containers in a cool, ventilated, and dry location, away from heat and oxidizing agents. Do not store in direct sunlight or in temperatures of or below 41°F (5°C) or above 77°F (25°C). The approximate maximum shelf life is 24 months when properly stored, sealed, and unmixed.

WARNINGS

Ambient air and substrate temperature must be between 40° - 90°F (4.4° - 32°C) during application. The substrate temperature at application should be a minimum of 5°F (3°C) above the dew point temperature.

The product should be applied with falling temperatures to avoid pinholing. Primer should not be installed if temperatures will fall below 40°F (4.4°C) while curing or could fall below 32°F (0°C) within 24 hours of application. It should also not be applied if rain or dew is likely before the product sets.

The minimum cure and maximum re-coat times should always be followed.

When the primer is left exposed to the elements for longer than 24 hours or has been contaminated or damaged beyond cleaning and repair, the primer must be completely removed and re-applied.

Adhesion pull tests should be performed prior to application to ensure adequate bond strength can be achieved.

MIXING & APPLICATION

Before applying the AC TECH 2170 FC Epoxy Primer, ensure that substrates are prepared correctly in accordance with the relevant application recommendations.

Using a slow-speed (200 to 400 rpm) mechanical agitator, thoroughly mix the entire container of Part A-base resin then slowly add the entire contents of Part B-activator to the resin and continue mixing for about 5 minutes or until thoroughly mixed. After mixing, apply primer to substrate at the required consumption using a flat or 12-14 mil notched squeegee to ensure proper coverage and 12-mil minimum wet film thickness (WFT). Back roll the applied primer with Impermitek's nap rollers as required to ensure even coverage. The resin should be applied evenly onto the surface using care not to spread too thin or pool in low areas. Allow the primer to fully cure for a minimum of 4 hours and no longer than 24 hours before applying Impermitek's system.

For additional information regarding substrate preparation, product mixing, and application refer to the appropriate AC TECH PDS and TDS available at www.actechconcreteprimers.com.

SAFETY & HANDLING

Please, refer to the relevant AC TECH Safety Data Sheet (SDS) prior to handling or use. Use materials in strict accordance with published recommendations. Dispose of waste materials in accordance with local, state, and federal regulations.

TECHNICAL ASSISTANCE

For further information, please go to AC TECH's website at <https://actechconcreteprimers.com/>, email techteam@actechperforms.com, or call +1 (757) 855-5100.

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APPLICATION QUICK FACTS						
Unit Size gal (L) [Kg]	Unit Coverage ¹ ft ² (m ²)	Ambient Temperature ²	Substrate Temperature	Pot Life ³	Next Layer Minimum ³	Next Layer Maximum ³
2.4 (9.1)	300 (27.9)	40° - 90°F (4.4° - 32°C)	40° - 90°F (4.4° - 90°C)	Up to 20 Min.	4 Hours	24 Hours

- *Notes:**
1. Coverage is approximate and may be affected by surface-profile.
 2. Application temperatures between 40°F (4.4°C) to 90°F (32°C).
 3. Pot life, next layer, and cure times are approximate, based on a working temperature at 68°F (20°C) and may vary depending on sun exposure, wind, humidity, as well as the ambient, substrate, and resin temperatures at time of application.

APPROXIMATE COVERAGE RATES				
Substrate Profile	2.4 gal Kit ft ² (m ²)	ft ² /gal (ft ² /L)	gal/100ft ² (L/m ²)	Thickness (DFT) mils (mm)
Moisture & pH Mitigation Typical (CSP 3/4)	300 (27.9)	~125 (~33)	1.4 (0.6)	23 (0.58)
Pinhole Prevention Coat*	480 (44.6)	~200 (~53)	0.5 (0.20)	8 (0.2)
Aggregate Bonding Coat**	480 (44.6)	~200 (~53)	0.5 (0.20)	8 (0.2)

PHYSICAL PROPERTIES		
Description	Property	Standard
Color	Clear/Amber	-
% Solids (By Volume)	100%	ASTM D2697
Mix Ratio	2.43:1	-
Viscosity @ 75°F (24°C)	750 cps	-
Compressive Strength	14,500 psi	-
Tensile Strength	4,300 psi	-
Shore D Hardness	82 @ 48 hours cure	-
Mold Resistance	Does not promote mold growth	ASTM G21
Min. Overcoating Time	4 Hours	-
Pot Life 68°F (20°C)	Up to 20 minutes	-
Mixed Flash Point °F (°C)	>212 (>100)	ASTM D93
Ignition Temperature °F (°C)	>662 (>350)	-
VOC g/L	0	EPA Method 24

***Note:** Data represented above are average values unless noted otherwise.

Please, refer to Impermitek installation recommendations, application manuals, and guide specifications, for complete information regarding the suitability, application, use, and handling of Impermitek products.