

IR-ECO POLYMER RESIN PRODUCT DATA SHEET



PRODUCT & APPLICATION TOOLS



PRODUCT CODE	GRADE	COLOR	UNIT SIZE
121415-SC	Standard	Light Gray	4 gal (15L)
121433-SC	Standard	Nimbus Dark Gray	4 gal (15 L)
Approximate Coverage per Unit:		73-95 ft ² (6.8-8.8 m ²)	

DESCRIPTION

Impermitek's IR-Eco System is a low odor, cold liquid applied membrane fully reinforced with Impermitek's TekMat, that can be used in new recovery roofing and waterproofing applications. The IR-Eco System offers high versatility and delivers exceptional performance across a broad range of roofing and waterproofing applications.

The IR-Eco resin is available in Standard Grade for application within the temperature range of 37-86°F (3-30°C).

ACCESSORY COMPONENTS

The IR-Eco resin requires Impermitek's IR-Eco Catalyst Emulsion for curing. It also requires the IR-Eco low temperature accelerator or the IR-Eco high temperature inhibitor, depending on the ambient temperature at the time of application.

CODE	ITEM	SIZE
102051-SC	Impermitek Catalyst Emulsion	11 lb (5 kg) [4.5 L]
109248	Calibrated Measuring Container	Each
109249	38mm Catalyst Dispensing Tap	Each
121437-SC	IR-Eco Accelerator	0.07 gal (0.27 L)
121435-SC	IR-Eco Inhibitor	0.02 gal (0.09 L)

FEATURES

- Low-odor flexible hybrid polymer resin
- Curing adjusted by catalyst & additive
- Tough, durable, & UV resistant

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 32°F (0°C) or above 77°F (25°C). Approximate maximum shelf life is 12 months when properly stored, sealed, and unmixed.

WARNING

Ensure temperature and surfaces are within the application temperature guidelines. Minimum cure and maximum re-coat times should always be followed. When Impermitek IR-Eco is left exposed to the elements for extended periods of time or has been contaminated, cleaning or repairing may be required before applying subsequent coats or layers.

MIXING & APPLICATION

Before applying the IR-Eco resin, ensure that substrates are prepared and primed correctly in accordance with the relevant application guidelines. Mask off the designated work area.

Using a slow-speed (200 to 400 rpm) mechanical agitator, thoroughly mix the entire container of resin for two minutes before use. When temperature conditions demand, add accelerator or inhibitor and thoroughly mix into the resin before adding catalyst. Only catalyze the amount of material that can be used within 10-15 minutes. Add the pre-measured catalyst to the resin component and stir for two minutes and apply to the substrate. Refer to the catalyst information found in this PDS.

After mixing, apply Impermitek's IR-Eco resin to substrate with reinforcement at the recommended consumption rate using a roller (or brush, if access is restricted). Ensure an even, uniform application across all surfaces.

SAFETY & HANDLING

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

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TECHNICAL ASSISTANCE

For further information, please contact Impermitek Technical Services at +1(780)906-4600 or technical@impermitek.com. More information can also be found at www.impermitek.com.

STANDARD GRADE APPLICATION QUICK FACTS

Unit Size gal (L)	Unit Coverage ¹ ft ² (m ²)	Ambient Temperature ²	Substrate Temperature ²	Rain Proof & Pot Life ³	Next Layer Minimum ³	Next Layer Maximum ³
4 (15)	73 - 95 (6.8 - 8.8)	35° - 86°F (2° - 30°C)	34° - 104°F (1° - 40°C)	10 - 20 minutes	40 - 60 minutes	7 days

- *Notes:**
1. Includes base & top coats. Coverage is approximate and may be affected by surface-profile.
 2. Ensure all materials and substrates remain at least 5°F (3°C) above dew point temperature with a maximum 85% relative humidity.
 3. Pot life, rain proof, working, and cure times are approximate and may vary depending on sun exposure, wind, humidity, as well as the ambient, substrate, and resin temperatures at the time of application.

APPROXIMATE COVERAGE RATES (BY VOLUME) WITH TEKMAT 225 REINFORCEMENT

Substrate Profile	Basecoat* ft ² /gal (ft ² /L)	Topcoat ft ² /gal (ft ² /L)	Basecoat* gal/100ft ² (L/m ²)	Topcoat gal/100ft ² (L/m ²)	Total (DFT) mil (mm)
Smooth (CSP 3)	34 (9)	81.6 (21.5)	2.95 (1.2)	1.23 (0.5)	67 (1.7)
Medium (CSP 4)	29 (8)		3.44 (1.4)		75 (1.9)
Rough (CSP 5)	24 (6)		4.17 (1.7)		87 (2.2)

***Note:** Basecoat must be applied with Impermitek TekMat reinforcement. Approximate coverage rates above reflect application using Impermitek TekMat Field 225 fiberglass mat reinforcement.

APPROXIMATE COVERAGE RATES (BY VOLUME) WITH TEKMAT 450 REINFORCEMENT

Substrate Profile	Basecoat* Ft ² /Gal (Ft ² /L)	Topcoat Ft ² /Gal (Ft ² /L)	Basecoat* Gal/100ft ² (L/M ²)	Topcoat Gal/100ft ² (L/M ²)	Total (Dft) Mil (Mm)
Smooth (CSP 3)	27.3 (7.2)	81.6 (21.5)	3.68 (1.5)	1.23 (0.5)	79 (2.0)
Medium (CSP 4)	23.9 (6.3)		4.17 (1.7)		87 (2.2)
Rough (CSP 5)	20.5 (5.4)		4.91 (2.0)		99 (2.5)

***Note:** Basecoat must be applied with Impermitek TekMat reinforcement. Approximate coverage rates above reflect application using Impermitek TekMat Field 450 fiberglass mat reinforcement.

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IR-ECO STANDARD GRADE Pour Dispensed Catalyst Emulsion Using Calibrated Measuring Container & Additive Mixing Chart					
TEMPERATURE RANGE	37 - 47°F (3 - 8°C)	48 - 50°F (9 - 10°C)	51 - 63°F (11 - 17°C)	64 - 67°F (18 - 19°C)	68 - 86°F (20 - 30°C)
CATALYST ADDITION RATE	4%	3%	3%	3%	3%

ADDITIVE (1 PER 15L CAN)	ACCELERATOR REQUIRED	N/A	Inhibitor Optional	INHIBITOR REQUIRED
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AMOUNT OF IR-ECO RESIN	CATALYST EMULSION ML* (ALTERNATIVE 15ML SPOONS) *Note: Nominal 10 ml allowance has been made for residual catalyst remaining in measuring cups.									
	Gal (L)	ml	spoon	ml	spoon	ml	spoon	ml	spoon	ml
0.26 (1)	60	4	50	3.5	50	3.5	50	3.5	50	3.5
0.66 (2.5)	130	8	100	6	100	6	100	6	100	6
1.32 (5)	250	16	190	12	190	12	190	12	190	12
1.98 (7.5)	370	24	280	18	280	18	280	18	280	18
2.64 (10)	490	32	370	24	370	24	370	24	370	24
4 (15)	730	48	550	36	550	36	550	36	550	36

IMPORTANT: The temperature ranges and catalyst addition shown are to be used as a guide. Catalyst levels may be adjusted up or down as required to suit prevailing conditions but should NOT go below the minimum recommended catalyst addition rates. Tested pot life before starting application. In very hot conditions and particularly when performing detailing work, smaller batch mixes are recommended to allow sufficient application time.

IMPERMITEK IR-ECO RESIN STANDARD COLORS		
Code	Color Name & RAL No.	Color Swatch
121415-SC	Light Gray – RAL 7032	
121433-SC	Nimbus Dark Gray – RAL 7032	

***Note:** When ordering colors, please indicate the appropriate color code and RAL color number. Slight variations in color or shade between actual colors and those shown here are possible due to individual monitor settings when viewed online or the nature of printing technology used. Custom colors can be produced to order subject to minimum quantities and special pricing. IMPERMITEK colors are UV stabilized, however no warranty is offered or implied for color fastness, color matching, or texture.

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

Revised 10-10-2025