

RP INDUSTRIAL SUPPLY

FIRE POLY™ FP50CC

Clear specification and field application · 1, 2, or optional 3 spray passes · SI and U.S. units

Revised 3 September 2026 (originally issued 28 August 2026). This is the controlling coverage and application sheet for RPIS–EPS work. The rating is a finished film, not a count of trigger pulls. Passes are spray methods that divide the same required finished film; they are not extra manufacturer coats.

PART A — SPECIFICATION

A1. Product

Product	FIRE POLY™ FP50CC (Fire Poly FP50CC)
Type	Water-based intumescent fire-retardant coating. Milky when wet; dries clear; becomes insoluble when dry.
Use	Interior artificial plants, artificial foliage, decorations, artificial Christmas trees.
Service	Interior. Permanent on interior surfaces unless removed by extraordinary means. Not an exterior-rated system.
Do not	Do not dilute. Do not mix with any other product. Do not freeze.
Seller / contact	4theCycle LLC d/b/a RP Industrial Supply Intl · JefRey@RPIndustrialSupply.com · +1.509.435.5066 · mailing 304 S Jones Blvd #5112 Las Vegas NV 89107

A2. Rated fire performance (finished film)

The manufacturer surface-burning table is for this finished film only:

Property	Specified value
Flame spread	0.0 – 5
Smoke developed index	190
Preliminary coats	None
Fire-retardant film (rated)	1 finished coat
Overcoats	None
Flash point (closed cup)	No flash / non-flammable
Code language on literature	NFPA 701; formulated to meet NFPA 101 Life Safety Code — AHJ acceptance is separate

A3. Controlling coverage — what “150–200” means

THE SPEC IS FINISHED FILM, NOT THE NUMBER OF PASSES

150–200 square feet per U.S. gallon (3.68–4.91 m² per litre) is the amount of leaf area one gallon may cover when work is complete.

200 ft²/gal is the leanest film the manufacturer lists for the table above. 150 ft²/gal is a heavier film (more product on the leaf). Covering more than 200 ft² with one gallon (for example 350 ft²/gal) is a thinner film than specified. It is not this specification.

One spray pass, two spray passes, or an **optional three spray passes** are all allowed. All must finish inside this envelope. Three passes are a thinner-mist method, not a third manufacturer coat.

Convert once and use either column. U.S. gallon = 3.785 L. 1 ft² = 0.0929 m².

Specified finished film	ft ² per U.S. gal	m ² per litre	Litres per m ²	U.S. gal per 100 ft ²
Leanest allowed (rated table)	200	4.91	0.204	0.50
Heaviest end of envelope	150	3.68	0.272	0.67

Field rule: after the last pass, a litre of product shall have treated between 3.68 m² and 4.91 m² of foliage surface. Less area per litre = heavier (acceptable). More area per litre = too thin (not this spec).

A4. How 1, 2, and optional 3 spray passes all meet the same spec

Method	Each pass	Finished film (the spec)
1 spray pass	150–200 ft ² /gal · 3.68–4.91 m ² /L	150–200 ft ² /gal · 3.68–4.91 m ² /L
2 spray passes (preferred on textured foliage)	300–400 ft ² /gal each · 7.36–9.82 m ² /L each	Still 150–200 ft ² /gal · 3.68–4.91 m ² /L
3 spray passes (optional)	450–600 ft ² /gal each · 11.04–14.73 m ² /L each	Still 150–200 ft ² /gal · 3.68–4.91 m ² /L

Two or three passes simply split the **same planned litres** across equal thinner mists (1/2 per pass for two; ~1/3 per pass for three). Dry to the touch between each pass. Do not add a second or third pass and then stretch the litre over more area. Three equal mists are optional — use them when 1–2 passes still run or pond, or on very dense / veined foliage and high-detail trees. Do not call 2-pass or 3-pass a “2-coat / 3-coat manufacturer system.”

A5. Quantity rule of thumb

Manufacturer tree rule	1 U.S. quart (0.95 L) treats one typical 5-foot (1.5 m) artificial tree when applied at the specified film.
Planning check	Measure or estimate developed foliage area. Divide by 4.91 m ² /L (lean) or 3.68 m ² /L (heavy). That is litres required.

Example. 20 m² of developed foliage surface: lean film 20 ÷ 4.91 ≈ 4.1 L; heavy film 20 ÷ 3.68 ≈ 5.4 L. Apply that quantity in **one, two, or three equal passes**. Do not make 20 m² “come out” of 3 L.

A6. Out of specification (do not write these as the rating)

- Finished coverage thinner than 200 ft²/gal / 4.91 m²/L (including 350 ft²/gal / 8.59 m²/L).
- Diluted product, mixed product, or frozen product.
- Exterior service presented as a manufacturer-rated FP50CC system.
- Calling two or three thin passes a “2-coat manufacturer system” or “3-coat manufacturer system.” The manufacturer table is **one finished film**. Two or three passes are only a spray method.

PART B — APPLICATION PROCESS

B1. Conditions

- Work outdoors or in strong ventilation. The wet product has a strong odor.
- Substrate clean and dry. Dust, oil, and loose dirt off first.
- Air and surface above freezing. Do not apply if the coating or the plant will freeze before cure.
- Use as supplied. Do not add water or any other product. Do not dilute. Do not mix. Do not freeze.
- Sprayer contact parts stainless steel or plastic. Store remaining liquid in polyethylene.

B2. Equipment

- Standard trigger sprayer on mist, or pump / air sprayer at 80 psi (5.5 bar) or greater.
- Nozzle 200–300 mm (8–12 inches) from the surface.
- Respirator or mask, rubber or neoprene gloves, eye protection.
- Brush or dip is allowed on small pieces; the finished-film numbers in Part A still apply.

B3. Choose 1 pass, 2 passes, or optional 3 passes

Use	Choose
Smooth or small items; applicator can lay an even film without runs	1 spray pass at 150–200 ft ² /gal (3.68–4.91 m ² /L)
Veined leaves, dense trees, commercial / high-traffic interiors — preferred on textured foliage	2 spray passes at 300–400 ft ² /gal each (7.36–9.82 m ² /L each)
Very dense / veined foliage, high-detail trees, or when 1–2 passes still run or pond	3 spray passes (optional) at 450–600 ft ² /gal each (11.04–14.73 m ² /L each)
Any choice	Same finished film. Same fire specification. Three is optional, not required.

B4. Spray method (all choices)

1. Shake or roll the closed container. Pour only what you will use in this session.
2. Set the nozzle to mist, not stream. Hold 200–300 mm (8–12 in) off the leaf.
3. Start at the trunk / core and work outward. Start at the bottom and work up so the underside of leaves is wetted.
4. Cover every visible plastic surface. Missed back-faces are untreated fuel.
5. Keep the wet film thin enough that it does not run, drip, or pond in the veins. Ponding dries as white dots or trails.
6. If using **two passes**: stop the first pass when roughly **1/2 the planned litres** are on the plant. Allow to dry to the touch. Then apply the second pass with the remaining litres, same pattern. If using **three passes**: apply about **1/3 of the planned litres** on each pass, drying to the touch between each pass, same pattern. Do not add a third pass and then stretch the litre over more area.
7. When the planned litres for that plant (Part A5) are on the surface, stop. Do not “keep spraying until it looks wetter.”
8. Keep the treated item dry for **24 hours after the last pass**. Then it may be moved inside. Do not expose to moisture for that 24 hours.

B5. Between-pass and cure times

Between two or three passes	Dry to the touch. In warm dry air this may be 1–4 hours. In humid or cool air, longer. Do not stack a wet next pass on a wet previous pass. These times apply to 2-pass and optional 3-pass work.
After the last pass	24 hours dry before moisture, rain exposure, wiping, or placing in a public interior.
Full insolubility	The film becomes insoluble when dry. Allow a full day before any cleaning.

B6. Cleanup

- Flush water-based sprayers with clean water, then a 1:4 bleach-to-water rinse if residue remains, then water again.
- Brushes and rollers: wash immediately with 1:4 bleach-to-water.
- Spills: flush with water. Wet floor can be slick until dry.

B7. Field record (attach to the shipment / job file)

Record	Enter
Product / lot	FP50CC · lot _____
Item treated	_____
Estimated foliage area	_____ ft ² / _____ m ²
Litres (or gallons) used	_____ L / _____ U.S. gal
Finished coverage	_____ m ² /L or _____ ft ² /gal
Passes	☐ 1 pass ☐ 2 passes ☐ 3 passes (optional)
Date / time last pass	_____
24-hour dry complete	☐ Yes
Finished coverage inside 3.68–4.91 m ² /L (150–200 ft ² /gal)	☐ Yes

AHJ / SUBMITTAL LANGUAGE

Write: "FIRE POLY FP50CC applied to a finished coverage of 150–200 ft² per U.S. gallon (3.68–4.91 m² per litre), in one, two, or three light spray passes totaling that film."

Do not write: "applied at 350 ft²/gal" or "2-coat manufacturer system" or "3-coat manufacturer system." Those are not this specification.

This sheet does not certify Saudi Civil Defense or SASO acceptance. The original manufacturer TDS, SDS, lot documents, and fire-marshal packet still travel with the goods.

Interior use. Companion: RPIS-EPC FP50CC Spray Frequency and Field Maintenance (outdoor KSA language on that sheet is an RPIS field plan only).