

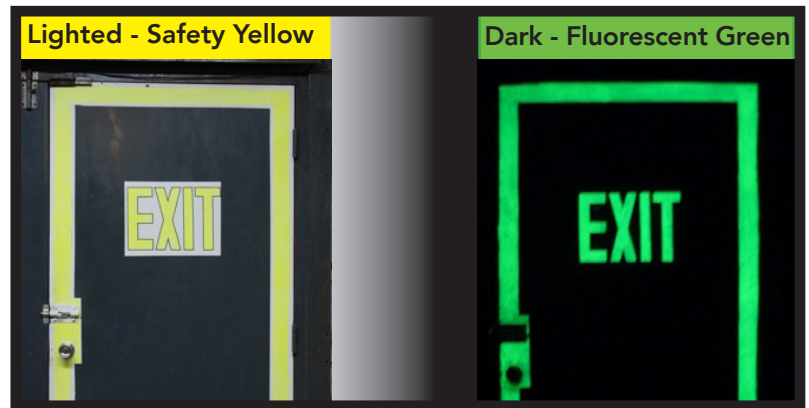
**DESCRIPTION**

The 377 Series is a two-component, water based, interior\* **Glow-in-the-Dark (GITD)** Safety Marking Paint. It requires intermixing a special yellow pigment (377Y1) with a resin (377V1). The special pigment absorbs energy from ultraviolet light that is released in darkness. This product appears yellow when lit and fluorescent green when dark.

A minimum of two coats of this product must be applied over a white surface to achieve a uniform appearance when lit and a maximum glow in darkness. (Use 376W1 White Undercoat or equivalent.)

Application of 379V1 Clear Protective Sealer over the GITD Marking Paint is recommended in traffic areas, or where cleanability is important, or if applied outside.

*\* interior - The safety yellow pigment will fade quickly to an off-white color if used outdoors. The coating film however is suitable for exterior exposure and the glow-in-the-dark effect will not be diminished.*



**BENEFITS**

- Long lasting glow that recharges after exposure to UV light sources.
- Less expensive and longer lasting than tape.
- Water base, low odor, low VOC, and non-flammable.
- Easy to apply by brush, roll or spray.
- Can be applied to metal, concrete, wood or drywall, or over existing paint or wallcoverings.

**USE AREAS**

Use to help identify and locate important pathways or objects in total darkness. Outline exits, stairs, safety equipment, switches and controls that need to be located in the dark.

**LUMINESCENCE RATING**

Test Results: 377V1/Y1 at .005" dry-film-thickness:

ASTM 2073	10, 60, 90 min.	53,18, 5 (mcd/m <sup>2</sup> )
DIN 67 510	10, 30, 60, 90 min.	81, 24, 10, 7 (mcd/m <sup>2</sup> )
NYC - 26	10, 60, 90 min.	59, 9, 6 (mcd/m <sup>2</sup> )

The intensity and duration of the "glow" depends on:

1. The level of exposure to ultra-violet light
2. The dry-film-thickness of the glow-in-the-dark (GITD) coating.

**MIXING**

The container of 377V1 is short-filled to allow room for the addition of the correct amount of 377Y1 pigment. Hand stir 377V1, and then add the proper amount of 377Y1 pigment. Continue hand stirring until the pigment is completely mixed and the color is uniform. **Mixed product should be used within 24 hours after mixing, or before the product becomes solid.**

Mix ratios for less than full containers		
	By Volume	By Weight
377V1 Base	89 parts	77 parts
377Y1 Pigment	11 parts	23 parts

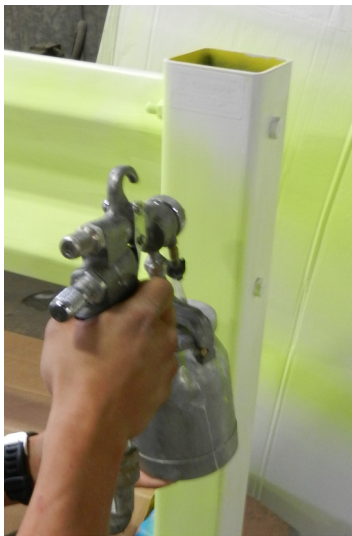
# CARBIT

## Safety Glow Marking Paint water base photoluminescent paint

### APPLICATION TECHNIQUES

Glow-in-the-dark (GITD) coatings are often applied as stripes or as borders around doors, stairs, controls, etc. Design the job to minimize masking by painting between natural breaks or corners on the substrate. Where masking is necessary, use low adhesion, safe release tape. Remove masking tape before each coat dries to prevent the masking tape from lifting the paint. Cut along the edge of the masking tape if the paint dries before the tape is removed.

The primer (376W1) and clear sealer (379V1) can be brushed, rolled or sprayed. Fewer coats of the Glow-in-the-dark (GITD) may be required when sprayed and spraying is always recommended when coating larger areas and when a very smooth finish is required.



Surface and air temperature > 45° F and < 95° F at least 5° F. Relative humidity < 85% with air movement. Air circulation is necessary for proper dry and cure.

Brush - Use a high quality, synthetic bristle brush. Always spread paint back into the previous wet paint. Do not go back and try to touch up spots once coating begins setting up.

Roller - 1/4" nap, lint-free cover. Always spread paint back into the previous wet paint. Do not go back and try to touch up spots once coating begins setting up.

Airless spray: 900 - 1500 psi, .013" - .015" tip.

Capspray HVLP Air Turbine - #3 Set Up, Minimum Fluid Flow, Full Air Conventional or HVLP , 1.4 mm fluid nozzle.

### SPREAD RATE and DRY TIMES

Product	Description	No. of Coats	Min. DFT*	Sq. Ft. / Gal.**	Dry-time to Recoat	Dry-Through	Dry Hard
376W1	White Undercoat	1	1.5	300	1 hr.	1 hr.	24 hr.
377V1/Y1	Glow-in-the-Dark	2 - 3 ***	5	250	2-3 hr.	4-8 hrs.	7 days
379V1	Low Gloss Clear Sealer	1	1.5	300	1 hr.	1 hr.	24 hr.

\* DFT = dry film thickness measured in mils (1 mil - .001" inch)

\*\* Maximum spread rate to achieve minimum film thickness to required to meet luminescence test standards. Actual yield may be less due to loss during application caused by material held in roller or lost in overspray.

\*\*\* Three coats may be required to achieve minimum film thickness when brushed or rolled.

\* DRYING TIMES (@ 72° F and 50% RH @ 1 mil dry film thickness)



**Safety Glow Marking Paint**  
water base photoluminescent paint

MATERIAL ESTIMATE

ONE GALLON STARTER KIT with primer, GITD, and sealer				Photoluminescent Marking Paint
Item #	Description	Pkg Size (Fl. Oz.)	Pkg. Fill- Wtg. (Lbs.)	4" wide stripe
376W1	White Base Coat	64	5.38	1 gal., nominal .004" DFT 550 lineal ft.
377Y1	Pigment	24	2.28	
377V1	Resin	128	7.62	
379V1	Clear Sealer	64	4.38	

Sold only as a kit						
		Quart Kit		Gallon		
Product	376W1	377V1- Qt.	377Y1- Qt	377V1-1	377Y1-1	379V1
Description	White Base Coat	Part A - Base	Part B - Pigment	Part A - Base	Part B - Pigment	Clear Sealer
Color	White	Safety Yellow / Fluorescent Green Glow				Satin Clear
Type	Acrylic	Strontium aluminate europium and Acrylic				Acrylic Urethane
Dry-to-touch *	30 minutes	60 minutes				15 minutes
Dry-to-recoat	1 hour	2-3 hours				1 hour
Wtg. / Gal.	10.75	9.90				8.75
Solvent	Water	Water				Water
Vol. Solids %	42%	50%				36%
Wt. Solids %	54%	60%				39%
VOC	<100 g/L	Mixed kit < 100 g/L				<100 g/L
60° Gloss	<8	15				10-15
Flash Point	> 212° F	> 212° F				> 212° F
Package Sizes	Qts. and Gallon	Qts. and Gallon Kits				Qts. and Gallon

**SAFETY** Low VOC and Non-flammable. Consult MSDS for specification safety precautions and recommendations.

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