

Holiday Detector Voltage Settings

COATING	THICKNESS	VOLTAGE	APPLICABLE DETECTORS
Paints, Epoxy	1 - 10 Mils (.5mm - .25mm)	67 DC	670, 673 w/wetsponge electrode
Fusion bonded epoxies	10 - 30 Mils (.25mm - .75mm)	1600 - 3000	715, 915, 725, 925, 115
Rosscote, Tarsel, Protogol UT310L, etc.	15 - 30 Mils (.38mm - .75mm)	2400 - 3000	715, 915, 725, 925, 115
Coal tar on concrete	16 - 60 Mils (.41mm - 1.52mm)	2000 - 10000	725, 925, 125
Vinylester	21 - 40 Mils (.53mm - 1.02mm)	3000 - 4000	715, 915, 725, 925, 115
Polyester/Fiberglass	50 - 60 Mils (1.27mm - 1.52mm)	3000 - 6000	725, 925, 115
	90 - 125 Mils (2.29mm - 3.18mm)	8000 - 10000	725, 925, 125
Tapes	Polyken	6000 - 8000	725, 925, 125
	Greenline	6000	725, 925, 125
	Tapecoat	10000	725, 925, 125
	Polygard (1000 or RDX50)	8000 - 12000	725, 925, 125
Extruded, Heatshrink	Xtrucoat	8000 - 14000	725, 925, 125
	Pritec - 60 Mil (1.52mm)	14000 - 15000	725, 925, 125
Coal tar, Asphalt, Enamels, Yellow Jacket, other heavy coatings	3/32" - 2.3mm (94 Mil)	12500	725, 925, 125
	5/32" - 3.9mm (156 Mil)	15000	725, 925, 125
	3/16" - 4.8mm (187 Mil)	17000	735, 125
	1/4" - 6.35mm (250 Mil)	20000	735, 125
	1/2" - 12.7mm (500 Mil)	25000	735, 125
	5/8" - 15.9mm (625 Mil)	30000	735
3/4" - 19.0mm (750 Mil)	35000	735	

NACE SPECIFICATION EQUATIONS

Thin Film Epoxies

$$V = 525 \times \sqrt{T} \quad (T, \text{ in Mils})$$

OR

$$V = 3294 \times \sqrt{T} \quad (T, \text{ in mm})$$

Example: Epoxy, .016" thick

$$.016 = 16 \text{ Mils}$$

$$\sqrt{\text{of } 16} = 4$$

$$V = 525 \times 4 = 2,100 \text{ volts}$$

T = Thickness

$\sqrt{\quad}$ = Thickness

1 Mil = .001 inches

Asphalt/ Coal Tar

$$V = 1250 \times \sqrt{T} \quad (T, \text{ in Mils})$$

OR

$$V = 7843 \times \sqrt{T} \quad (T, \text{ in mm})$$

Example: Coal Tar, 1/8" thick

$$1/8" = .125" = 125 \text{ Mils}$$

$$\sqrt{\text{of } 125} = 11.2$$

$$V = 1250 \times 11.2 = 14,000 \text{ volts}$$

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