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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, Tarset, 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) 90 -125 Mils (2.29mm - 3.18mm)	3000 - 6000 8000 - 10000	725, 925, 115 725, 925, 125
Tapes	Polyken Greenline Tapecoat Polygard (1000 or RDX50)	6000 -8000 6000 10000 8000 - 12000	725, 925, 125 725, 925, 125 725, 925, 125 725, 925, 125
Extruded, Heatshrink	Xtrucoat Pritec - 60 Mil (1.52mm)	8000 - 14000 14000 - 15000	725, 925, 125 725, 925, 125
Coal tar, Asphalt, Enamels, Yellow Jacket, other heavy coatings	3/32" - 2.3mm (94 Mil) 5/32" - 3.9mm (156 Mil) 3/16" - 4.8mm (187 Mil) 1/4" - 6.35mm (250 Mil) 1/2" - 12.7mm (500 Mil) 5/8" - 15.9mm (625 Mil) 3/4" - 19.0mm (750 Mil)	12500 15000 17000 20000 25000 30000 35000	725, 925, 125 725, 925, 125 735, 125 735, 125 735, 125 735 735

NACE SPECIFICATION EQUATIONS

Thin Film Epoxies

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

OR

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

Example: Epoxy, .016" thick

.016 = 16 Mils

$\sqrt{}$ of 16 = 4

V = 525 x 4 = 2,100 volts

T = Thickness

$\sqrt{}$ = Thickness

1 Mil = .001 inches

Asphalt/ Coal Tar

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

OR

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

Example: Coal Tar, 1/8" thick

1/8" = .125" = 125 Mils

$\sqrt{}$ of 125 = 11.2

V = 1250 x 11.2 = 14,000 volts

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