

Cured Floor Coating Properties

Epoxy vs. Polyurethane vs. One Day Floors™ Polyaspartic

Property	ASTM Test Method	2-Pack Epoxy	Aliphatic PUR	One Day Floors Polyaspartic	One Day Floors Advantage
Abrasion Resistance	D-4060 (a) mg loss	83-105	60-65	22-28	Triple the abrasion resistance
Falling Sand Abrasion	D-968 (b) liters sand/mil	8-10 (c)	25-30 (c)	30-38	Triple the wear resistance
Adhesion Pull-Off	D-4541	400 psi over concrete 400-600 psi over steel	400 NR (d)	400 psi over concrete 1000 psi over steel	Twice the adhesion to steel
Tensile Strength	D-638, D-2370 psi	3,339-4,000	4,400-5,500	4,500-5,000	Equal
Impact Direct/Reverse	D-2794 inch pounds	Fails	100/40	160/160	40%-50% chip reduction
Flexibility 1/8 in Mandrel	D-522 cracking	Fails	Passes	Passes	50% greater flexibility & chip reduction
Color-Gloss Retention: <i>SSPC Paint Specification No. 36</i> 48 Months South Florida	D-1014 meets	Level 1 Fails	Level 2	Level 3	Twice the color & gloss retention
2000 Hours Accelerated	D-4587 Meets	Level 1 Fails	Level 2	Level 3	Twice the color & gloss retention

Recoat Time or Walk-On foot traffic:

Above 70F°; Below 80% Relative Humidity Minimum/Maximum Recoat-Hours	3-4/48	5/36	Unlimited	2 Days
Minimum Foot Traffic-Hours	12-16	24	2	2 Days
Below 55F°; Above 80% Relative Humidity Maximum Recoat-Hours	NR (d)	24-36	2	Go Versus
Minimum Foot Traffic-Hours	NR (d)	24-36	2	No-Go

(a) CS-17 Taber Abrasion Wheel, 1,000 gram load; 1,000 revolutions (b) Liters of sand to erode 1 dry mil of coating (c) Average of generic coatings surveyed (d) NR—Not Recommended. Contact coating representative for guidance.

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