

Cured Coatings Properties

Epoxy vs. Polyurethane vs. FLEXMAR® Polyaspartic

Property	ASTM Test Method	2-Pack Epoxy	Aliphatic PUR	FLEXMAR Polyaspartic	FLEXMAR Advantage
Abrasion Resistance	D-4060 (a) mg loss	83-105	60-65	22-28	Triple the Abrasion Resistance
Falling Sand Abrasion	D-968 (b) l sand/mil	8-10 (c)	25-30 (c)	30-38	Triple the Wear Resistance
Adhesion Pull-Off	D-4541 psi concrete failure psi over steel	400 400-600	400 NR (d)	400 1,000	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 in.-lb	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: SSPC Paint Specification No. 36					
48 Months South Florida	D-1014 meets	Level 1 Fails	Level 2	Level 3	Twice the Color & Gloss Retention
2,000 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 70°F; 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 55°; 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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