

Sto Coatings Testing Summary



Product	StoCoat™ Acryl	StoCoat™ Acryl Plus	StoCoat™ Acryl Medium	StoCoat™ Lotusan®	Stolastic Sand	Stolastic Smooth	StoSilco® Lastic	Sto Powerwall Finish	Sto Powerflex Finish
Product Number	80201	80648	80657	80216	80211	80212	80222	80296 - 80299	80280 - 80283
Description	Interior/Exterior grade wall coating	Interior/Exterior universal grade coating	Exterior grade textured coating that is traffic durable	Exterior wall coating with <u>Lotus-Effect®</u>	Textured elastomeric wall coating	Elastomeric exterior wall coating	Silicone enhanced elastomeric wall coating	Flexible medium to heavy textured finish	Elastomeric medium to heavy textured finish
Texture	Smooth	Smooth	Medium	Smooth	Light Sand	Smooth	Smooth	Medium or Heavy	Medium or Heavy
Application Thickness, Wet mils (mm)	5 - 7 (0.13 - 0.18)	8-10 (0.20 - 0.25)	8-10 (0.20 - 0.25)	5 - 7 (0.13 - 0.18)	12-14 (0.30 - 0.36)	12-14 (0.30 - 0.36)	14-18 (0.36 - 0.46)	N/A	N/A
Tested Thickness, Dry mils (mm)	3 - 3.5 (0.08 - 0.09)	4.5 - 5 (0.11 - 0.13)	N/A	N/A	N/A	8 - 9 0.20 - 0.22)	8 - 8.5 (0.20 - 0.22)	N/A	N/A
ASTM E 96 Water Vapor Permeability, perms (ng/Pa.s.m2) one coat at reported dry mil thickness	46 (2637)	25 (1434)	21 (1200)	N/A	30 - 40 (1680 - 2250)	40 - 50 (2250 - 2810)	50 - 60 (2810 - 3375)	17.5 (1000)	21 (1200)
ASTM E 96 Water Vapor Permeability, perms (ng/Pa.s.m2) two coats at reported dry mil thickness	34.0 (1950)	16 (920)	13.4 (720)	40 (2280)	20 - 30 (1125 - 1680)	30 - 40 (1680 - 2250)	40 - 50 (2250 - 2810)	N/A	N/A
ASTM D 412 Tensile Strength, psi (MPa)	585 (4.1)	386 (2.70)	N/A	182 (1.25)	290 (2.00) 250 (1.72)	290 (2.00)	250 (1.72)	N/A	60
ASTM D 412 Elongation at Break, %	14.1	306	N/A	N/A	450	450	315	N/A	200
Adhesion to Concrete, psi (MPa)	300 (2.07)	320 (2.20)	300 (2.07)	550 (3.79)	305 (2.10)	345 (2.38)	320 (2.20)	> 40 (0.27)	> 95 (0.65)
Percent Solids, by volume*	55	53	53	52	60	60	60	N/A	N/A
VOC content, g/L	< 50 g/L*	< 50 g/L*	< 50 g/L*	< 100 g/L**	< 50 g/L*	< 50 g/L*	< 50 g/L*	< 50 g/L*	< 50 g/L*
CO ₂ Diffusion Resistance Coefficient	1,160,000	1,400,000	317,000	N/A	496,000	496,000	491,000	N/A	N/A
CO ₂ Diffusion Resistance, m	174	200	140	N/A	144	144	142	N/A	N/A

* Product complies with US EPA (40 CFR 59) and South Coast AQMD (Rule 1113) VOC emission standards for architectural coatings.

** StoCoat Lotusan complies with US EPA (40 CFR 59 only).