Turbo Poly Seal

PRODUCT DATA SHEET

DESCRIPTION & FEATURES

Turbo Poly Seal is a high performance, rapid-setting, polymethyl methacrylate (PMMA) liquid resin. Turbo Poly Seal is catalyzed with Turbo catalyst powder and combined with Poly Fleece reinforcing fabric to form a flexible, monolithic, reinforced membrane.

STORAGE

Always store closed containers in a cool, ventilated and dry location away from heat and oxidizing agents. Do not store in direct sunlight or in temperatures below 32°F (0°C) or above 77°F (25°C). Approximate shelf life is twelve months from date of shipment when properly stored, sealed and unmixed.

APPLICATION

Turbo Poly Seal is applied via brush or roller. Prior to application, refer to published specifications and approved details for complete application instructions. The applicator is responsible for ensuring conditions are appropriate to proceed with proper application method.

QUICK FACTS

UNIT SIZE (kg)	AMBIENT TEMP (°F)	SUBSTRATE TEMP (°F)	RESIN TEMP (°F)	POT LIFE (min)	RAIN PROOF (min)	NEXT LAYER (hour)	FULLY CURED (hour)
20 (16.1 L)	50-95 (10 to 35°C)	50-122 (10 to 50°C)	50-86 (10 to 30°C)	15-20 at 68°F (20°C)	30-45 at 68°F (20°C)	1-1.5 at 68°F (20°C)	3-6 at 68°F (20°C)

INFORMATION & TENTION & TESTING

APPROXIMATE COVERAGE RATES

SUBSTRATE PROFILE	20 KG UNIT ft² (m²)	MINIMUM TOTAL CONSUMPTION kg/ft² (kg/m²)	BASE COMPONENT CONSUMPTION kg/ft² (kg/m²)	TOP COAT kg/ft² (kg/m²)	TOTAL THICKNESS mils(mm)	BASE COAT mils (mm)	TOP COAT mils (mm)
Smooth (primed substrate)	71 (6.5)	**0.28**	0.18	0.10	**98 (2.5)**	63 (1.6)	35 (0.9)
Typical (CSP 3-4 & SBS sanded basesheet)	66 (6.1)	**0.30**	0.20		**106 (2.7)**	71 (1.8)	
SBS Granulated sheet	57 (5.2)	**0.35**	0.25		**122 (3.1)**	87 (2.2)	
Rough (CSP 5)	50 (4.6)	**0.40**	0.30		**140 (3.6)**	105 (2.7)	

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www.bergstromm.com
850 Greenlick Hollow Rd. MT Pleasant. PA 15666
Tel: (203) 858-0080

PHYSICAL PROPERTIES			
PROPERTY	MD	XMD	TEST METHOD
Peak load @ 73.4˚F (23˚C) control, lbf/in (kN/mm)	60 (10.5)	55 (9.6)	ASTM D5147
Elongation @ 73.4˚F (23˚C) control, %	55	85	ASTM D5147
Peak load @ 73.4˚F (23˚C) post heat aging, lbf/in (kN/mm)	65 (11.4)	70 (12.3)	ASTM D5147
Elongation @ 73.4˚F (23˚C) post heat aging, %	55	50	ASTM D5147
Peak load @ 73.4˚F (23˚C) post acc. weathering, lbf/in (kN/mm)	70 (12.3)	70 (12.3)	ASTM D5147
Elongation @ 73.4˚F (23˚C) post acc. weathering, %	70	60	ASTM D5147
Peak load @ 0˚F (-18˚C), lbf/in (kN/mm)	130 (22.8)	110 (19.3)	ASTM D5147
Elongation @ 0˚F (-18˚C), %	65	85	ASTM D5147
Tear resistance, lbf (N)	75 (334)	60 (267)	ASTM D5147
Dimensional stability, %	0	0.1	ASTM D5147
Static puncture resistance, lbf (N)	Pass 56 (249)		ASTM D5602
Shore A hardness, durometer	87		ASTM D2240
Water absorption, @ 212˚F (100˚C), %	0.9		ASTM D570
Water vapor permeance, perms	0.3		ASTM E96
Low temperature flexibility, ˚F (˚C)	Pass -33 (-36.1)	Pass - 33 (-36.1)	ASTM D7264
Low temperature crack bridging	No cracks		ASTM C1305
Self-ignition, ˚F (˚C)	752 (400)		ASTM D1929
Smoke density index	150		ASTM E84
Rate of burning, in/min (m/hr)	0.9 (1.4)		ASTM D635

TESTING & APPROVALS

CRRC RATED PRODUCT · FM APPROVED · CLASSIFIED UL · LARR · FLORIDA BUILDING CODE