

# VERMONT NATURAL COATINGS®

## PolyWhey Industrial ASTM evaluation

Characteristic	Corporate Standard	Test Standard
Condition in Container	Smooth, homogeneous liquid	ASTM D1849
Coating Color and Appearance	Milky, uniform	ASTM D1729
Total solids, % by volume	≈28.5%	Oven method
pH	7.5-8.5	ASTM DE70
Fineness, μm	≤15	ASTM D1210
Drying Time (dry to touch)	<2 h	ASTM D5895
Curing time (dry through)	≤12	ASTM D5895
Adhesion	≤2	ASTM D3359
Sheen, 60° - Semi-gloss	45 ±3	ASTM D523
Sheen, 60° - Satin	20 ±3	ASTM D523
Pencil hardness, gouge	4H	ASTM D3633
Konig hardness	67.2 seconds	ASTM 4366/Konig IC-04-09 rev 2
Abrasion resistance, Taber (1000 g @ 1000 cycles) – Semi-gloss	71.9 mg loss	ASTM D 4060/AC-04-09 rev1
Mar resistance (black heel)	Very good to excellent	ASTM 5170/AC-04-18 rev 2
Alcohol resistance (50%, v/v ethanol)	No visual defect	ASTM D 2248/IC-04-03 rev 2
Cold check	No visual defect	ASTM D1211
Water resistance	No visual defect	ASTM 1308
Total VOC, g/L	≤180	ASTM D968
Material VOC, g/L	≤58	EPA Fed Ref Method 24