

Starting point formulation

Uradil AZ 800

Formulation WB-2139, High Gloss DTM White

Raw materials	Weight (Pounds)	Volume (Gallons)	Function	Supplier
Add all of the raw materials in order listed				
Water	74.52	8.95	- - -	
BYK-1710	1.22	0.17	Anti-foaming agent	BYK
Acrysol RM-8W	1.92	0.21	Rheology modifier	Dow
AMP-95	2.04	0.26	Neutralizing agent	Dow
Disperbyk-190	15.71	1.78	Dispersing agent	BYK
Slowly sift the following. Adjust speed as needed to maintain vortex				
Tioxide TR93	280.08	8.41	Colour pigment	Huntsman
High Speed Disperse to 7+ NS Hegman				
Slowly add the following to above vortex. Mix 10 minutes				
Uradil AZ 800	668.67	75.02	Binder	DSM Coating Resins
Premix the following two raw materials then add to vortex				
Water	6.96	0.84	- - -	
Nuodex Web Combi AQ	6.96	0.82	Combination drier	Rockwood Pigments UK
Slowly add the following to vortex				
Tint-Ayd WD 2018	0.24	0.03	Colour pigment dispersion	Elementis Specialties
Troysol LAC	0.98	0.11	Flow & levelling agent	Troy Corporation
BYK-349	1.53	0.17	Substrate wetting agent	BYK
Halox 570 (30% Sol.)	26.60	3.04	Flash Rust/Anti corrosive agent	Halox
Acrysol RM-2020 NPR	1.82	0.20	Rheology modifier	Dow
	1089.24	100.00		

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Composition data:

Total solids, by weight, %	57.18
Total solids, by volume, %	46.71
Density, lbs/gal, 25°C	10.89
Pigment Volume Concentration, %	20.12
Pigment to Binder Ratio	0.87
Viscosity Zahn #3, 25°C	20-25 sec
pH	8.2-8.6
Volatile Organic Compounds, g/l	43.79

Application data:

Gloss, 3.0 wet mils on Leneta 7B Form	24 hrs. dry 77°F 50 % RH
20°	86
60°	96
85°	99

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