PRODUCT INFORMATION

PRODUCT

SF5000 - Solvent Free, Water Based Hydroxyl Functional Resin

DESCRIPTION

Solvent free, two-component, water-based urethane resin designed for use in coatings and finishes that demand high performance, long wear and ease of application. The SF5000 coating system is comprised of the formulated OH functional base resin and an isocyanate curative such as Vencorex Easaqua 803 & Easaqua XL-600.

APPLICATION

Highly suitable for various flooring substrates such as wood, vinyl, VCT and epoxy primed concrete.

PROPERTIES

Percent Solids	pH	Viscosity (cps)	lbs/gal	VOC (g/l)
37-39	7.0-8.5	10-200	8.8	< 20

Recommended Part A starting Formulations

Components		For Wood Floors		For Resilient Floors (VCT and Vinyl)			
		SF5000-WC (30% Solids)		SF5000-LS (22% Solids)		SF5000-HS (30% Solids)	
		Pounds	Gallons	Pounds	Gallons	Pounds	Gallons
1	SF5000	76.901	74.73	57.096	55.20	77.765	76.86
2	SE-21 (Wacker)	-	-	0.069	0.08	0.13	0.14
3	Acrysol RM8W(Dow)	0.984	0.99	-	-	-	-
4	Water	0.984	1.03	0.069	0.08	0.13	0.14
5	Tego Foamex 805	1.034	1.09	0.139	0.36	0.26	0.27
6	Water	20.097	21.83	42.627	44.36	21.715	22.46

Recommended Part A Manufacturing Instructions

A. Prepare premixes of reduced defoamer (2 & 4) or reduced thickener (3 & 4) as required.
B. Charge coater concentrate (1) to vessel and start agitator at moderate speed.
C. Add defoamers (2 & 4) and (5) as required; mix for 30 minutes.
D. Add water (6) to vessel. Mix at a slow speed for 30 minutes to release process foam.
E. For wood coating: Add thickener (3 & 4) at the recommended level or incrementally to achieve the required viscosity. Mix for an additional 30 minutes.

Typical Formulated Part A Properties			
Property	SF5000-WC	SF5000-LS	SF5000-HS
Percent Solids	29-31	21-23	29-31
pH	7.0-8.5	7.0-8.5	7.0-8.5
Viscosity (cps)	70-120	5-20	5-20
Pounds per Gallon	8.7	8.6	8.7
VOC Content (grams per Liter)	< 20	< 20	< 20

DO NOT ALLOW TO FREEZE

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PART B Blending and Application Instructions

A. Leave sufficient room in the Part A pack for the addition and manual stirring of Part B.
B. Part B should be blended into Part A at time of use. Mix well by hand stirring for 30-60 seconds. Avoid excessive shaking and foam generation. *The A/B mixture generates CO2 and should NOT be covered.*
C. The A/B mixture will thicken slightly after blending and then fall to proper coating viscosity. Allow to stand for 15 to 20 minutes before using.
D. Straining of the blended product is not recommended.
E. The A/B blend will *not* gel with time; however, the useable pot life after blending is 6 to 8 hours. Do not prepare more than is required for 8 hours application.
F. The A/B blend can be applied to floor with a sponge applicator, T-bar, string mop or micro-fiber mop. For spray application, familiarization with the Part B MSDS is emphasized.
G. A water based acrylic emulsion sealer is recommended. For wood floors: The bare floor, sealer coats and bare floor, sealer coats and A/B top coats should be properly sanded before the final top coat is applied.

Typical Formulated Part A Properties			
Property	**SF5000-WC**	**SF5000-LS**	**SF5000-HS**
Sward Hardness	48	51	41
Tensile Strength (psi)	7.0-8.5	7.0-8.5	3592
Percent Elongation	98	109	143
Gloss @ 20° on Black VCT	-	71	57
Gloss @ 60° on Black VCT	-	87	86
Gloss @ 60° on Leneta Chart 3 mil Film.	86	87	86
Taber; CS-10 / 1000 cycles (mgs loss)	10.5	18.9	22.5

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