ESSENTIAL R2358

METAL-FREE FLOOR FINISH POLYMER

R2358 is a metal-free self cross-linking high solids polymer that can be formulated into floor finishes that compete with most zinc cross-linked finishes. The unique chemistry allows formulators to create a low odor finish which exhibits excellent gloss along with black heel mark and detergent resistance properties. The formulated finishes can meet or exceed Grean Seal GS-40 Standards.

KEY BENEFITS

- High gloss
- Excellent durability
- Low odor
- Quick curing/drying
- Ease of removal

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TYPICAL PROPERTIES*

Appearance Translucent White
pH 7.5
Solids, % by Weight
Viscosity, cps @ 25°C <50
Density, lbs/gal 8.75
% VOC 0
Tg °C 64
Acid Number 57
Freeze/Thaw StabilityPasses 3 cycles
Konig Hardness (secs)

^{*}These values should not be interpreted as specifications.



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Starting Point Formulation – ALV253

Materials	<u>Pounds</u>
Essential R2358	356.9 lbs.
Water	270.8 lbs.
23% solids solution of Joncryl 678 (ASR)	40.7 lbs.
Premix the following water and solvents, then add sl	owly.
Water	203 lbs.
Dipropylene Glycol Monomethyl Ether	9.26 lbs.
Diethylene Glycol Monoethyl Ether	36.38 lbs.
	00.11
Tributoxy Ethyl Phosphate	26 lbs.
Benzoflex LC-531	9.1 lbs.
Benzoflex 181	1.9 lbs.
43G40 Wax	19.6 lbs.
25% Wax Emulsion AC-540	25.5 lbs.
Polyfox PF-2002	0.8 lbs.
Proxel GXL	0.089 lbs.
TOTA	AL: 1000.00 Lbs.

Formulation Attributes

Solids, % by weight	20%
pH	7.5
VOC %	< 1%
Wt/gal	8.6 lbs./gal.
Polymer/ASR/Wax	86/5/9

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Formulation Performance Information

All formulations tested at 20% solids and <1% VOCs.

Gloss Results on black BVCT at 1000 sq feet per gallon coverage:

		R2358	Commercially Available
	Degree Gloss	Starting Point	Green Floor Finish
1st Coat	60	26	28
	20	9	7
2nd Coat	60	58	47
	20	25	17
3rd Coat	60	75	62
	20	44	29
4th Coat	60	83	71
	20	56	38

	R2358	Commercially Available
	Starting Point	Green Floor Finish
Recoat:	Excellent	Excellent
Black Heel Mark Resistance:	Excellent	Excellent

Konig Hardness (1-mil dry):

1 Day	64
7 Days	78

Supplier Information

Product	Description	Supplier
Joncryl 678	Alkali Soluble Resin	BASF
Benzoflex LC-531	Plasticizer	Eastman
Benzoflex 181	Plasticizer	Eastman
43G40 Wax	Wax Emulsion	Chemcor
AC-540	Wax	Honeywell
Polyfox PF-2002	Leveling Aid	Omnova
Proxel GXL	Preservative	Arch 4K Biocides