

ESSENTIAL R2358

METAL-FREE FLOOR FINISH POLYMER

Essential R2358 is a self-cross-linking high solids polymer that can be formulated into floor finishes that can compete against most Zinc cross-linked floor finishes. Floor Finishes formulated with this new polymer can meet or exceed Green Seal™ GS-40 standards. The unique chemistry allows for formulators to create low odor finishes; very little ammonia is used in the process. The finishes exhibit excellent gloss, black heel mark and detergent resistant properties. These finishes also have the added benefit of drying and curing quickly allowing for 15 – 30 minute recoats and being easily stripped with non-corrosive strippers.

KEY BENEFITS

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

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TYPICAL PROPERTIES*

Appearance	Translucent Emulsion
pH.....	7.5
Solids, % by Weight	40
Solids, % by Volume	37.7
Viscosity, cP @ 25°C	< 200 cps
Specific Gravity	1.06
Density, Lbs./Gal.....	8.86
VOC Level (As Supplied)	
Lbs./Gal.	0.1
g/L	6.5

*These values should not be interpreted as specifications.



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Starting Point Formulation – ALV253

<u>Materials</u>	<u>Pounds</u>
Essential R2358	356.9 lbs.
Water	270.8 lbs.
23% solids solution of Joncryl 678 (ASR)	40.7 lbs.
<i>Premix the following water and solvents, then add slowly.</i>	
Water	203 lbs.
Dipropylene Glycol Monomethyl Ether	9.26 lbs.
Diethylene Glycol Monoethyl Ether	36.38 lbs.
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.
TOTAL:	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:

	<u>Degree Gloss</u>	<u>R2358 Starting Point</u>	<u>Commercially Available Green Floor Finish</u>
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

	<u>R2358 Starting Point</u>	<u>Commercially Available Green Floor Finish</u>
Recoat:	Excellent	Excellent
Black Heel Mark Resistance:	Excellent	Excellent

Konig Hardness (1-mil dry):

1 Day	64
7 Days	78

Supplier Information

<u>Product</u>	<u>Description</u>	<u>Supplier</u>
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