

ESSENTIAL R2352

ZINC CROSS-LINKED FLOOR FINISH POLYMER

R2352 is a zinc cross-linked polymer that can be formulated into very high gloss floor finishes with excellent durability. The starting formulation is non-yellowing and scuff resistant. It is ideal for areas where frequent buffing is not typically performed; such as schools, retail stores and lobbies.

KEY BENEFITS

- APEO-free
- Scuff resistance
- Extremely high gloss
- Quick recoatability

DISCLAIMER: The information and recommendations contained herein are based on data believed to be correct. The information is offered solely for the customer's consideration, investigation and verification because of numerous factors beyond our control affecting the results of the use of products, Essential Industries, INC. makes no warranty of any kind, expressed or implied, including those of merchantability and fitness for a particular purpose, other than that the product conforms to its applicable current standard specification. The manufacturer's only obligation shall be to replace such quantity of the product proven to be defective.

TYPICAL PROPERTIES*

Appearance	Translucent White
pH.....	8.0
Solids, % by Weight.....	41.0
Viscosity, cps @ 25°C	<400
Density, lbs/gal	8.8
% VOC.....	0
Tg °C.....	52
Acid Number	43
Freeze/Thaw Stability	Passes 3 cycles
Konig Hardness (secs).....	132

*These values should not be interpreted as specifications.



The Spark of Innovation

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Starting Point Formulation – CC054

<u>Materials</u>	<u>Pounds</u>
Essential R2352	395.94 lbs.
23% solids solution of Joncryl 678 (ASR)	11.5 lbs.
SE-21	0.2 lbs.

Premix the following water and solvents, then add slowly.

Water	121.278 lbs.
Dipropylene Glycol Monomethyl Ether	7.83 lbs.
Diethylene Glycol Monoethyl Ether	35.61 lbs.
Propylene Glycol	7.83 lbs.

Kathon LX	0.14 lbs.
Cupric Nitrate	0.002 lbs.
Chemguard S550	0.67 lbs.
Tributoxy Ethyl Phosphate	12.17 lbs.
Benzoflex LC-531	6.44 lbs.
Benzoflex 181	1.39 lbs.
J91G35 Wax	53.5 lbs.

Mix for 30 minutes.

Water	345.5 lbs.
TOTAL:	1000.00 Lbs.

Formulation Attributes

- APEO-free
- DBP-free

Solids, % by weight	20%
pH.....	7.5
Viscosity (CPS)	3.5 centipoise
VOC %	0.87
Wt/gal	8.53 lbs./gal.
Polymer/ASR/Wax	88/1.5/10.5

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Formulation Performance Information

Formulation tested at 20% solids.

Black Tile Gloss Results:

	<u>Degree Gloss</u>	<u>Commercially Available 25% Solids Floor Finish</u>	<u>CC054</u>
1st Coat	60	32	37
	20	7	9
2nd Coat	60	59	65
	20	23	29
3rd Coat	60	74	83
	20	42	50
4th Coat	60	82	92
	20	52	67

Black Heel Mark Resistance:

	<u>Commercially Available 25% Solids Floor Finish</u>	<u>CC054</u>
Rating	Very Good	Very Good

Konig Hardness (1-mil dry):

	<u>CC054</u>
1 Day	116
7 Day	132

Supplier Information

<u>Product</u>	<u>Description</u>	<u>Supplier</u>
Chemguard S550	Leveling agent	Chemguard
Benzoflex LC-531	Plasticizer	Eastman
Benzoflex 181	Plasticizer	Eastman
J91G35 Wax	Wax Emulsion	Michelman, Inc
SE-21	Defoamer	Wacker Silicones
Kathon LX	Preservative	Dow