



Application Guide

Product Description

This 1-component wood floor finish is easy to apply and provides a durable and scuff resistant finish. It exhibits excellent chemical resistance with a low odor and low VOC.

Features and Benefits

- Excellent abrasion and chemical resistance
- Easy application and leveling
- Excellent scuffing resistance

Typical Properties

Appearance	White emulsion
pH	8.5
Solids	30%
Viscosity	30 cps
Density	8.65

This information is not intended for use in preparing specifications.

Application(s)

- Hard Surface Floors
- Gymnasium/Residential

Environmental Impact

The finish is a low VOC and low odor product utilizing safe and compliant binders and solvents.

Compliance

Please see the product's current Safety Data Sheet, SDS, for regulatory information. You can request an SDS at <https://indspyre.com/Home/Contact>.

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Starting Point Formulation

1-K Gym Floor Finish 93-8

Material	Pounds	% by Volume	% by Weight	Use
Add materials as listed and mix until homogenous.				
Water	52.18	6.25	6.11	Solvent
Acticide® MBS	0.31	0.04	0.04	Preservative
ACRYSOL™ RM 2020	3.61	0.42	0.42	Rheology modifier
Zemea® Propanediol 1, 3 PDO	7.88	0.90	0.92	Freeze thaw
DOWANOL™ DPM	39.41	5.98	4.61	Solvent
DOWANOL™ DPnB	14.78	1.95	1.73	Solvent
KP-140® (TBEP)	4.93	0.58	0.58	Plasticizer
BYK®-024	0.39	0.02	0.05	Defoamer
BYK®-347	4.93	0.57	0.58	Leveling Agent
Add resin slowly at high agitation.				
Water	142.31	17.05	16.66	Solvent
IndPoly Sustain	413.76	47.22	48.44	Urethane resin
RHOPLEX™ WL-91	169.44	18.98	19.84	Acrylic resin
BYK®-024	0.20	0.02	0.02	Defoamer
Total	854.13	100.00	100.00	

Formula Properties:

Specific Gravity (SG)	1.024	Total Pounds	854.13
Lbs. / Gal	8.54	Total Gallons	100
% Weight Solids	29.94	Coverage	500 sq ft/gal
% Volume Solids	27.73	Dry Time	Min. 30 mins
Grams VOC/liter less water	188.86	Recoat Frequency	As needed (traffic cond.)
Lbs. VOC/Gallon Less Water	1.58		

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Performance Data

1-K Gym Floor Finish 93-8

Performance Characteristics	Standard	Product
Viscosity	D2983	30 cps
Dry Time		2 hours
Scuff (1-5, 1 no scuff, 5 poor scuff)		2
Taber Abrasion (CS10 250g/500 cycles)	D4060	13
Coefficient of Friction	D2047	0.52
Chemical Resistance (1-5, 5 no stain)	D1308	
▪ Mustard		4
▪ Ethanol		4
▪ Red wine		5
▪ Coffee		3
▪ Isopropanol 91%		4
▪ Orange juice		5
▪ Balsamic vinegar		4
▪ White vinegar		5
▪ Olive Oil		5
▪ Water		5

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Formulation Suggestions

- **Thickeners** – Recommended HEUR type thickeners at 0.5 – 2%.
- **Solvents** – Glycol ether DPM, and DPnB are typically recommended. TPM can be used for slowing the system down in cure. Not to exceed 275 VOC.
- **Defoamer** – silicone type defoamers are most effective, such as BYK®-024, 094 or TEGO™ Foamex 810 or 902W at a loading of 0.1 – 0.7%
- **Leveling agents** – silicone leveling agents such as BYK®-347, 349 or 3455 are most effective at a loading of 0.25 – 1%.
- **Crosslinkers** – Polyaziridine can be used at 2% on system weight

Raw Materials

- RHOPLEX™, DOWANOL™, and ACRYSOL™ are Trademarks of Dow.
- BYK® is a Trademark of BYK.
- Zemea® is a Registered Trademark of Primient Covation, LLC.
- IndPoly is a product of IndSpyre Solutions.

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