

VAROCOAT VARO-TOP HG(P/R) Acrylic/polyurethane resin based finish



1. OVER VIEW

VARO-TOP HG is a two component, acrylic/polyurethane resin based finish with excellent weather resistance and adhesion. It has outstanding workability and resistance to abrasion and chemicals..

a. Recommended Use

As a finishing coat for floor coating system use on factory, office, classroom, hospital, vehicular deck system, etc. where high-cleanness is desired.

2. PHYSICAL PROPERTIES

a. Finish and color: Gloss. Green. Other colors are available on request.

b. Drying Time

	5 /41	20 /68	30 /86
Set to touch	40 minutes	30 minutes	20 minutes
Dry through	8 hours	60 hours	4 hours
Fully cured	5 days	3 days	2 days

c. Solids by volume : Above 44%

d. Spreading Rate (Theoretical)

0.25kg/m² in 0.1mm dry film thickness on a smooth surface.

e. Specific Gravity(Mixed) : 1.1±0.05 (Kg/L).

f. Flash Point(closed cup) : 5 / 41 g.

g. Fire Rating: UL Rating Class A

H. Layer Physical Properties

Test Items	Requirement	Result	Test-Method
Chemical Resistance			
Resistance of Hot Water (Water, 120hrs, 40)	Appearance	PASS	KS M5000
Resistance of Acid (5% H ₂ SO ₄ , 48hrs, 23)	Appearance	PASS	KS M5000
Resistance of gasoline (48hrs, 23)	Appearance	PASS	KS M5000
Resistance of Alkali (5% Na ₂ CO ₃ , 48h, 23)	Appearance	PASS	KS M5000
Weather Resistance			
UV Light Resistance (257nm, 48hrs)	Appearance	PASS	KS M5000
Resistance of Accelerated Weathering (WS type, 1,000hrs)	Appearance	PASS	KS M5000
Abrasion Resistance			
Abrasion (Weight loss)	<50mg	13mg	Taber type

3. APPLICATION DETAILS

a. Surface Preparation

Remove any oil and grease from surface to be coated.

b. Preceding Coat

VARO-80P/R, VARO-100P/R or according to specification.

c. Application Conditions

Do not apply when the temperature is less than 5 /41 , and relative humidity is above 80%.

The surface temperatures must be at least 3 (5) above dew point to prevent condensation.

d. Mixing

VARO-Top HG(P) : VARO-Top HG(R): = 12 :3 (by weight).

Mix separately, then combine together and mix thoroughly with high speed dissolver for 5 minutes prior to application.

e. Pot Life & Recoating Interval

		5 /41	20 /68	30 /86
Pot Life		40 mins.	30 mins.	20 mins.
Recoating Interval	Min.	48 hours	15 hours	10 hours
	Max	72 hours	36 hours	24 hours

f. Thinning : VARO-SV(Thinner) (Thinning ratio : Max. 15% by weight)

g. Method of Application : Brush, Roller, Spray(Spattering) application.

h. Film Thickness

Recommended per coat 50 microns dry.

i. Shelf Life

VARO-TopHG(P) : 12 months

VARO-TopHG(R) : 6 months

* Store in cool, dry, well-ventilated place.

j. Packing : VARP-Top HG(P):VARO-Top HG(R) =12Kg/Drum : 3Kg/Drum

l. Remarks

- Use adequate ventilation.
 - Avoid contact with skin and eyes, and prolonged breathing of solvent vapors. In case of contact, wash with organic solvent and followed by soap and water cleaning.
 - Respiratory protection is recommended when applying this product in confined spaces or stagnant air.
 - Clean equipment with VARO-SV(Thinner) immediately after use.
 - Keep the recommended film thickness at application.
 - Thick film per coat may result in bubbling.
 - Dry completely to obtain good adhesion.
- Keep away from sparks and open flames.

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