

PRODUCT DATA

PRODUCT #: P-0072

DESCRIPTION:



PRODUCT INFORMATION:

With a custom-developed thermoplastic polymer, VYNGUARD® Polycarbonate sets the standard in the coatings industry for combining high performance with a soft feel and matte finish. This unique formula has a high cross-link density and UV inhibitors providing exceptional dirt shedding, stain resistance, and long-term protection for applications such as rolled decking, awnings, vinyl boat flooring and wall coverings. Available in solvent-based or low VOC water-based, the coating provides a clear, protective layer that blocks plasticizer from migrating through the surface.

It exceeds industry standards for dirt shedding, moisture resistance, severe stain protection and mildew resistance. It is also highly resistant to abrasions and marring, offering exceptional protection against wearing. It has a long coating life-cycle and demonstrates excellent adhesion to many types of substrates. The polycarbonate polymer matrix offers extreme flexibility, preventing surface cracking. This chemistry is custom-formulated by APV's R&D team to meet each customer's exact specification.

FEATURES:

EXCEPTIONAL DIRT & STAIN RESISTANCE

LONG TERM COLOR RETENTION

SOFT FEEL

HIGHLY UV RESISTANT

ABRASION RESISTANT

BLOCKS PLASTICIZER MIGRATION

EXCELLENT FLEXIBILITY

WATER-BASED & LOW VOC



carbon footprint

Less energy was used in the manufacturing and application of the ink and topcoat, compared to solvent-based coating or film

Contains Less than 3 VOC per Gallon



eco-friendly

No harsh chemicals required to clean the surface

Natural rain will easily remove dirt from the surface



sustainable

Lengthens life of the vinyl material

Contributes to long-term aesthetics & color retention

TECHNICAL DATA SHEET

**PRODUCT CODE(S):**

P-0072

PRODUCT DESCRIPTION:

VYNGUARD® POLYCARBONATE TOPCOAT

PHYSICAL PROPERTIES:

COLOR:	MILKY
TYPE:	WATER BASED
VISCOSITY:	600-800 CPS #3@30 RPM
WEIGHT PER GALLON:	8.52 lbs/gal ± 0.30 lbs. 1.02 g/ml ± 0.04 g/ml
SPECIFIC GRAVITY (ASTM D 1475-90):	1.007 ±
GLOSS @ 60°:	20-30 OVER BLACK
pH:	8.5-9.5
FLASH POINT:	178 °F 81.1 °C
SOLIDS:	30.35 % by weight 28.41 % by volume
THEORETICAL COVERAGE:	455.70 ft ² / gal @ 1.0 mil dry 11.18 m ² /l @ 25.4 μ
VOC (WET):	0.96 lb(s)/gal (115.1 g/l)
VOC (DRY):	2.33 lb(s)/gal (279.4 g/l)

APPLICATION:

RECOMMENDED FILM THICKNESS:	1.00 mil (wet) 25.58 g/m ² 0.28 mil (dry) 7.76 g/m ²
COVERAGE:	1,604.00 ft ² /gal @ 0.28 mil (dry)
METHOD:	GRAVURE PRINTER
CURE METHOD:	Oven/Force Dry 270 - 320 °F
REDUCTION:	NONE REQUIRED, USE AS SUPPLIED
CLEAN UP:	IPA
RECOMMENDED EQUIPMENT:	NOT APPLICABLE

SUBSTRATE:

TYPE:	VINYL/PVC
PREPARATION:	PRE-TREAT SUBSTRATE (I.E. CORONA TREATER OR PLASMA TREATER)

HANDLING & STORAGE:

SHELF LIFE:	1 YEAR
FREEZE CAUTION:	Protect from freezing
RECOMMENDED STORAGE:	STORE BETWEEN 10-35 °C

ADDITIONAL GUIDELINES:

Keep away from food, drink, and heat. Keep away from sources of ignition. No smoking. Do not breathe vapor. Avoid contact with skin and eyes. Never use pressure to empty. Take precautionary measures against static discharges.

A focused partner in advanced coating, chemical & manufacturing solutions...

Founded in 1878, APV Engineered Coatings custom engineers and manufactures industrial coatings and advanced chemical products out its state-of-the-art facility in Akron, Ohio. APV is a partner for some of the world's top producing manufacturers due to our expertise in chemical composition, the commercialization of advanced materials, and large-scale production with acute quality control. Our innovative solutions have been integrated into a variety of industries for unique applications.

At APV, clients work with knowledgeable and personable staff who are focused on delivering optimum solutions in an unprecedented timeframe. APV thrives by recognizing the importance of our clients' success, which have proved to create long-standing partnerships.



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