PRODUCT BULLETIN

August 2023

ARMORGUARD® 967 Series

Vinyl Ester Barrier Coats

DESCRIPTION

ARMORGUARD® 967 Series products are vinyl ester barrier coats formulated for the manufacture of a wide variety of composites parts, including those for the marine, transportation and other industries. ARMORGUARD® 967 series barrier coats reduce osmotic blistering, improve laminate cosmetics by reducing print and reduce cracking.

ARMORGUARD® 967 series barrier coats are also recommended for use in the production of composite molds due to its good cosmetics and high heat distortion temperature.

ARMORGUARD® 967 series barrier coats are that are applied directly behind gel coat prior to lamination.

ARMORGUARD® 967 Series Products include:

- 967BK150 – Black barrier coat that provides a visual aid to see air bubbles during lamination
- 967BD123 – Black barrier coat with extended gel time for pot gun spray
- 967WK396 – White barrier coat for use behind low-hide colors
- 967XK153 – Neutral barrier coat with low-hide

BENEFITS & FEATURES

- Resistant to osmotic (water) blistering due to vinyl ester base resin
- Improved cosmetics and reduced fiber print-through due to high heat distortion temperature
- Resistant to cracking due to tough vinyl ester base resin
- Low back-side tack
- Low styrene content

ARMORGUARD® 967 Series barrier coats meet the EPA National Emission Standards for Hazardous Air Pollutants (NESHAP) for Boat Manufacturing and Reinforced Composites Construction.

Both thixotropic and accelerated, ARMORGUARD® 967 Series barrier coats require only the proper amount and type of methyl ethyl ketone peroxide to cure at room temperature.

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PROPERTIES – LIQUID

Property[1]	Unit	967BK150	967BD123	967WK396	967XK153
Color Match	-	Black	Black	White	Neutral
Viscosity[2]	cps	13,500	13,500	11,500	10,500
Thix Index	-	6.0	6.0	5.5	6.0
Gel Time[3]	minutes	11	22	12	10.5
Lay-up Time	minutes	60	65	60	60
Total VOC	%	36.5	36.5	36.3	36.8
Sag Resistance	-	@ 24 mils wet (*on top of a gel coat*)	@ 24 mils wet (*on top of a gel coat*)	@ 24 mils wet (*on top of a gel coat*)	@ 24 mils wet (*on top of a gel coat*)
Hide	-	Complete @ 20 mils *wet*	Complete @ 20 mils *wet*	Complete @ 22 mils *wet*	N/A
Weight per Gallon	lbs/gal	9.72	9.72	9.60	9.64
Flash Point (Seta Closed Cup)	°C/°F	31/88	31/88	31/88	31/88

1) All properties at 25°C/77°F unless otherwise noted
2) Brookfield Viscometer RVF Spindle #4 at 4 RPM
3) 1.8% Arkema Luperox® DDM-9

APPLICATION

Refer to Polynt's Composites Applications Guide ("Cookbook") for equipment and application recommendations. Each user must determine the suitability of this product to his/her particular mode of operation and intended end-use application. A Polynt representative will be available to assist in the proper selection of all Polynt products available for commercial use.

The recommended application thickness for ARMORGUARD® 967 Series gel coats is 20-24 mils wet. CAUTION: Do not spray less than 16 mils wet. Films less than 16 mils wet will not cure properly and will not develop full blister and crack resistance properties.

SHELF LIFE & STORAGE

The shelf life of ARMORGUARD® 967 Series is 120 days from the date of manufacture from Polynt. To maximize usage life and maintain optimum properties, resins and gel coats should be stored in the original closed container at temperatures below 23°C/73°F and away from ignition sources and sunlight. Keep containers sealed to prevent moisture pick-up and monomer loss.

SAFETY & WARRANTY

To receive a copy of our safety and warranty information, please email safetyandwarranty@polynt.com.