PRODUCT BULLETIN

January 2024

POLYCOR® 960SW Series

ISO/NPG Gel Coats for the Swimming Pool Industry

DESCRIPTION

POLYCOR® 960SW Series gel coats are ISO/NPG products formulated for the swimming pool industry.

POLYCOR® 960SW Series gel coats meet the EPA National Emission Standards for Hazardous Air Pollutants (NESHAP) for Reinforced Plastic Composites Production - Corrosion Resistant/High Strength or High-Performance gel coat.

Use of POLYCOR® 960SW gel coat has enabled customers to meet certain requirements of the American National Standard for plastic bathtubs, shower receptors and shower stalls, IAPMO/ANSI Z124.1 .2-2005, Section 6.1.

For swimming pool applications, Polynt recommends that these gel coats be backed by IMEDGE® HPB210 High Performance Barrier Coat, Polynt's ArmorGuard® vinyl ester barrier coat products, or Polynt's ArmorStar® VSX vinyl ester skin resins. Use of these materials will create a durable osmotic blister resistant composite that is ideal for swimming pool manufacture.

POLYCOR® 960SW series gel coats are intended and recommended only for the original manufacture of swimming pools; they should not be used for post application (other than patching on the original units). These gel coats are not recommended for the manufacture of spas or saunas.

BENEFITS & FEATURES

- Resistance to tearing and color separation, resistance to porosity, and sag resistance
- Excellent resistance to water blistering
- Resistant fading caused by swimming pool chemicals
- Durable, reduced maintenance products

PROPERTIES – LIQUID

Property (1)	Unit	960W016SW White	960LK171SW Blue	960LF214SW Baby Blue
Viscosity (2)	cps	17,500	11,500	11,500
Thixotropic Index (3)	-	6.5	6	6.5
Gel Time (4)	minutes	13.5	13.5	13.5

1) All properties at 25°C/77°F unless otherwise noted
2) Brookfield Viscometer RV Spindle #4 at 4 RPM
3) Brookfield Viscometer RV Spindle #4 at 2/20 RPM
4) 1.8% Arkema Luperox® DDM-9

Polynt Composites recommends only the products listed above for use in pools, water slides, and other products where continuous water contact is anticipated. Polynt requires that a disclaimer be signed by any and all parties who intend to use non-recommended products for these applications.

APPLICATION

POLYCOR® 960SW Series gel coats are not compatible in the liquid state with isophthalic gel coats or resins. Spray and pumping equipment must be completely clean of these products before they can be used. Do not add any material, other than the recommended methyl ethyl ketone peroxide, to this product without the advice of a representative of the Polynt Composites.

POLYCOR® 960SW Series swimming pool gel coats are formulated for spray application. Brushing or rolling is not recommended.

Delamination can occur if the gel coat is left in the mold overnight without being laminated. It is essential that the gel coat at least be skinned within 8 hours of being sprayed.

These products should not be used when temperature conditions are below 60°F, as curing may be adversely affected.

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.

SHELF LIFE & STORAGE

The shelf life of standard cure POLYCOR® 960SW Series is 120 days from the date of manufacture from Polynt. The shelf life of fast cure (gel time less than 9 minutes) POLYCOR® 960SW Series is 60 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.

RELATED PRODUCTS

Polynt recommends the use of PATCHAID® when patching POLYCOR® 960SW Series gel coats. Options are as follows:

- Polynt's PATCHAID® 970XJ037, 970X900, 970XJ166 and 970XA014 – Resin based products that can be mixed into the gel coat to improve the working properties of spray patches.
- FC PATCHAID® 970C961 Fast Cure Spraycure™– Monomer based product that can be mixed into the gel coat to improve the working properties of spray patches or can be used as an overspray to seal the open side of spray patches.

RELATED LITERATURE

- Additional information on POLYCOR® 960SW Series swimming pool gel coats is available in MB-338 Performance of Swimming Pool Coatings. Please contact Polynt for more information.
- POLYNT-19-CBU-FRM-02 Pool Disclaimer Form

SAFETY & WARRANTY

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