PRODUCT BULLETIN
May 2023

Shimmer® 946SW Series

Swimming Pool Gel Coats

DESCRIPTION

Shimmer® 946SW Series gel coats are formulated for the swimming pool industry. These gel coats provide a deep, rich, sparkling finish that enhances pool appearance.

Shimmer® 946SW Series gel coats are only intended for the original manufacture of swimming pools. They should not be used for post application, other than for patching on the original units. They are not recommended for the manufacture of spas or saunas.

In swimming pool applications, Polynt Composites recommends that Shimmer® 946SW Series gel coats be backed by IMEDGE® HPB 210 High Performance Barrier coat, ArmorGuard® vinyl ester barrier coat products, or ArmorStar® vinyl ester skin resins. Use of these materials will create a durable osmotic blister resistant composite that is ideal for swimming pool manufacturing.

BENEFITS & FEATURES

- Deep, rich color and sparkling finish
- Excellent resistance to water blistering
- Resistant to fading caused by swimming pool chemicals
- Durable, with reduced maintenance products
- Meet EPA National Emission Standards for Hazardous Air Pollutants (NESHAP) for Reinforced Plastics Composites Production-Corrosion Resistant/High Strength or High-Performance gel coat
- Available in many appealing colors

PROPERTIES – LIQUID

Property[1]	Unit	Shimmer® 946 SW Series
Viscosity[2] [3]	cps	16,500
Thix Index	-	5.75
Gel Time[4]	minutes	11.5

1) All properties at 25°C/77°F unless otherwise noted
2) Brookfield Viscometer RVF Spindle #4 at 4 RPM
3) Shimmer® 946SW are available in different viscosity ranges. Please contact a Polynt Composite Representative for a recommendation that meets your production requirements
4) 100 g mass, 1.8% Arkema Luperox® DDM-9

APPLICATION

Shimmer® 946SW Series gel coats are formulated for spray application. Brushing or rolling is not recommended.

Shimmer® 946SW Series gel coats are formulated with special effects pigments having particle sizes up to 18-mesh. To avoid plugging, Polynt recommends removing the filter (after the fluid section) from the equipment and using a tip with an orifice size of approximately 0.036 inches. At this tip size, the gel coat delivery rate will be approximately 6.8 lbs/minute, higher than recommended for spraying conventional gel coats. As a result, a spray distance of 36-40 inches is recommended to maintain thickness control.

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 Shimmer® 946SW is 120 days from the date of manufacture from Polynt. The shelf life of fast cure (gel time less than 9 minutes) Shimmer® 946SW 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 Shimmer® 946SW gel coats. Options are as follows:

- Armorcote® 941CJ018 Patching Thinner for Marine Clear Gel Coats– mixed into the gel coat to improve the working properties of spray patches.
- Armorcote® 961XK192 Marine Clear Gel Coat or ArmorFlex® 963XK161 Marine Clear Gel Coat
- 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

MB-407 Shimmer® 946SW Patching Procedures

SAFETY & WARRANTY

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