PRODUCT BULLETIN

July 2020

HiGloss TR™ 99R Series

High Performance Low VOC Gel Coats for Reinforced Plastics

DESCRIPTION

HiGloss TR™ 99R gel coats are low VOC, high performance products formulated for the Reinforced Plastics Composites Industry.

BENEFITS & FEATURES

- Resistant to water and certain chemicals
- Provide durable, reduced maintenance products
- While offering low VOC's 99R gel coats have retained the important construction application qualities customers have come to expect from Polynt gel coats, such as resistance to porosity, tearing, color separation, sag resistance, consistent liquid properties, good patch-ability and more. These all add up to higher quality appeal in FRP parts made from Polynt's 99R Series gel coats.
- These gel coats only require the addition of the proper amount of methyl ethyl ketone peroxide to cure.
- HiGloss TR™ 99R gel coats meet the EPA National Emission Standards for Hazardous Air Pollutants (NESHAP): Reinforced Plastic Composites Production.

PROPERTIES – LIQUID

Property (1)	Unit	99R Whites	99R Colors
Viscosity(2)	cps	4,800	3,550
Thix Index (3)	-	5.5	6.0
Gel Time(4)	minutes	13.5	13.5

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

APPLICATION

Most HiGloss TR™ 99R gel coats are formulated for spray application. Brushable versions have 'Brushable' included in the product description and the product code has a B at the end. For spray versions, brushing or rolling is not recommended.

A fiberglass part is the mirror image of the mold. A preventive maintenance program for molds is essential. This will minimize the repair work (sanding and buffing) needed on the fiberglass parts. Sanding and buffing can substantially reduce the durability of the gel coat.

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

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CAUTION

HiGloss TR™ 99R gel coats may not be compatible in the liquid state with other gel coats or resins. Spray and pumping equipment must be completely clean of these products prior to use. Do not add any material, other than a recommended methyl ethyl ketone peroxide to these products without the advice of a Polynt representative. Under no circumstances should glycerin be added.

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-Reichhold products available for commercial use.

SHELF LIFE & STORAGE

The shelf life of standard cure HiGloss TR™ 99R series is 120 days from the date of manufacture from Polynt. The shelf life of fast cure (gel time less than 9 minutes) HiGloss TR™ 99R 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 HiGloss TR™ 99R 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.

SAFETY & WARRANTY

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