PRODUCT BULLETIN

August 2020

610 Series - High Performance Coatings

DESCRIPTION

Polynt's **IMEDGE®** products are high performance **I**n-**M**old cutting **EDGE** polymer technologies that offer unique and revolutionary alternatives to conventional gel coats. IMEDGE® HPC 610 coatings are advanced High-Performance Coating (HPC) products that have been formulated to be used as in-mold, exterior coatings for reinforced plastic parts. The IMEDGE product line represents Polynt's commitment to be a leader in the industry through technology, sales, technical and customer support.

BENEFITS & FEATURES

- Unparalleled weatherability and gloss retention
- Excellent elongation and toughness to prevent cracks and scuff marks
- Blush resistant for better protection from water and sun
- Excellent sag resistance and cure profile that provides a clean, sharp tape line
- Provides paint-line depth and richness to enhance the appeal of dark colors
- Applied in-mold with conventional equipment for ease of application
- Low HAP and MACT Compliant to meet environmental standards
- When IMEDGE® HPC 610 coatings are used in conjunction with IMEDGE® HPB High Performance Barrier coat, ArmorGuard® vinyl ester barrier coat, or ArmorStar® vinyl ester skin coat resin, a durable osmotic blister resistant composite can be made that is suitable for applications with extended water exposure.
- IMEDGE® HPC 610 coatings are durable and crack resistant. When used in combination with IMEDGE® HPB, the resulting composite has exceptional crack resistance.

PROPERTIES – LIQUID

Property(1)	Unit	HPC 610 Series
Viscosity(2)	cps	13,500
Thix Index	-	6.0
Gel Time(3)	minutes	11

1) All properties at 25°C/77°F unless otherwise noted
2) Brookfield Viscometer RVT Spindle #4 at 4 RPM
3) Brookfield Viscometer RVT Spindle #4 at 2/20 RPM
4) 2.0% United Initiators Norox® MEKP 925H

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APPLICATION

IMEDGE® HPC 610 products are formulated for spray application. Brushing or rolling is not recommended. IMEDGE® HPC 610 products can be applied with typical gel coat spray application equipment. Use of external catalyst mix equipment is recommended. Use of internal mix spray equipment increases the potential for porosity.

CAUTION
IMEDGE® HPC 610 may not be compatible in the liquid state with other gel coat or resins. Spray and pumping equipment must be completely clean of these coatings or resins before IMEDGE® HPC 610 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 Polynt Composites USA Inc.

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 IMEDGE® HPC 610 is 120 days from the date of manufacture from Polynt. The shelf life of fast cure (gel time less than 9 minutes) IMEDGE® HPC 610 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 IMEDGE® HPC 610 gel coats. Options are as follows:

- 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- 406 IMEDGE® Patching Procedure

SAFETY & WARRANTY

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