PRODUCT BULLETIN

August 2022

ArmorCast® CDMC2810

Densified, Solid Surface Casting Resin

DESCRIPTION

Polynt Composites' ArmorCast® CDMC2810 densified casting resin is designed for a wide variety of casting applications where resin is combined with an inorganic filler such as aluminum trihydrate and cast. ArmorCast® CDMC2810 resin is especially versatile for applications such as Solid Surface where it provides strength and thermal shock resistance to withstand the toughest day-to-day use. The ArmorCast® CDMC2810 densified casting resin provides superior strength, workability, and versatility.

BENEFITS & FEATURES

- Excellent thermal shock resistance
- Very low cured matrix color
- Fast cure and cure follow-through
- UV stabilized
- Acrylic modified

PROPERTIES – LIQUID

Property(1)	Unit	CDMC2810
Viscosity(2)	cps	638
Gel Time(3)	minutes	22.5
Gel to Peak	minutes	17
Peak Exotherm	°C/°F	178/353
Uncatalyzed Stability	minutes	67.5

1) All properties at 25°C/77°F unless otherwise noted
2) Brookfield Viscometer RVT Spindle #2 at 20 RPM
3) 2.0% DDM-9

APPLICATION

It is recommended that gel time be checked in the customer's plant as age, temperature, humidity, and catalyst will produce varied gel times. It is best to run a filled gel time with the same resin/filler ratio used in production to gauge which gel time range is most applicable.

When using a standard strength MEKP catalyst, the catalyst level should not exceed 2.5% or fall below 1.0% for proper cure. Recommended range is 1.0% to 2.5% based on measured resin amount with 2.0% being ideal. These products are designed to be used with a standard MEKP catalyst.

This product should not be used at temperatures below 65°F, as curing will be adversely affected.

Although curing at room temperature is the standard practice and can produce acceptable parts, post curing is a recommended practice to assure a thorough cure each and every time. For best results, post cure should be started as soon as possible after the part has reached its peak exotherm. The part should **NOT** be allowed to cool to room temperature before post cure is started. As soon as the finished product has sufficient green strength, it should be demolded, placed on a holding fixture, and immediately post cured at 180°F for two hours to ensure the necessary cure.

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 ArmorCast® CDMC2810 resin 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.