

MAKOBOND SURFACE COAT 566

PRODUCT DESCRIPTION

Makobond SC 566 is a high temperature black surface coat. SC 566 is similar to our SC 565 system; however, the SC 566 provides a longer pot life as well as a higher glass transition temperature. SC 565 is designed for high temperature, tough applications. The hard surface created by SC 566 is resistant to scratches and cuts.

PRODUCT HIGHLIGHTS

- HIGH TEMPERATURE
- LONG POT LIFE
- ABRASION RESISTANT
- EASY MIX

PRODUCT CHARACTERISTICS

	SC 566A	SC 566B
Viscosity @ 25°C	Paste	1,100 cps.
Specific Gravity	1.51	1.01
Color	Black	Amber

PHYSICAL PROPERTIES

	Results	ASTM Method
Cured Hardness (Shore D)	90-92D	D2240
Coefficient of Thermal Expansion	2.49×10^{-5} in/in/°F	D696
Glass Transition Temperature, Tg, (DMA)	350°F	D4065

HANDLING PROPERTIES

Surface Coat 566	
Mix Ratio By Weight, Resin, Hardener	100:11
Mix Ratio By Volume, Resin, Hardener	6.1:1
Mixed Viscosity @ 25°C	170,000 cps.
Pot Life @ 25°C	95-110 minutes

HANDLING AND CURING

Measure out the proper weights of SC 566 and mix until uniform and no streaks are present throughout. Be sure to scrape the sides and bottom on mixing container to avoid any unmixed material. SC 566 will cure at room temperature but does need a post cure. Follow the post cure schedule of the laminate resin being used.

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PACKAGING WEIGHTS

	Quart Kit	Gallon Kit	Pail Kit
SC-566A	2.5 lbs	11 lbs	55 lbs
SC-566B	0.275 lbs	1.2 lbs	6 lbs
SC-566 Kit	2.775 lbs	12.2 lbs	61 lbs

STORAGE AND SAFETY

Makobond SC 566 has a shelf life of 12 months from date of shipment when unopened and stored at ambient temperatures, (18-27°C). Nitrogen purging opened containers is recommended before re-sealing. SC 566B may darken over time, but this will have no effect on any finished product. Users need to exercise proper care while working with material; gloves, eyewear, and proper ventilation are recommended. Warning: All thermosetting matrix systems undergo exothermic reaction during vulcanization and/or curing, generating heat. If not properly managed, exothermic reactions may release possibly flammable or toxic gases into the surrounding. Users should exercise extreme caution when blending large volumes of ingredients (ie greater than 1 lb), and/or curing thick sections of components (typically greater than 0.200 inches). Users should monitor heat profiles of any curing or blended materials carefully and attentively during cure: Please contact a Mako team member with any concerns prior to use and/or to coordinate the proper management of safety and temperature monitoring process to avoid exothermic phenomena.