

TECH LINE Coatings

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PRODUCT DATA SHEET

CilGen "Brilliance"™

SELECTION DATA

CHEMICAL NAME / SYNONYMS:

PRODUCT DESCRIPTION:

CilGen Brilliance is a pigmented, ceramic coating capable of providing extremely high levels of chemical protection in very thin films. *CilGen Brilliance* when applied over highly reflective surfaces such as Chrome or polished aluminum provides a brilliant, metallic colored finish. When properly applied *CilGen Brilliance* will withstand substrate temperatures over 500f. *CilGen Brilliance* will air cure over a period of 24 hours, though it will be dry to the touch and accept reasonable handling in less than 1 hour and may be placed in service after 8 to 10 hours. Maximum hardness is achieved after 7 days. *CilGen Brilliance* requires no surface etch and will bond to extremely smooth surfaces. Simply degrease and apply. The coating cures to a very hard, smooth surface with excellent adhesion. *CilGen Brilliance* is solvent based with a very low to no V.O.C. CilGen LTC must be used as a base and final coat.

RECOMMENDED USES:

CilGen Brilliance is primarily designed as a colored protective coating with excellent chemical and corrosion resistance. Apply to any polished metal such as; aluminum, brass, bronze, steel, Stainless Steel, Titanium, Magnesium, Chrome plating or to glass, ceramics, plastics, including flashed chrome plastic, and paint and other polymers. The final film thickness is less than .001".

NOT RECOMMENDED FOR: Highly porous surfaces.

CHEMICAL RESISTANCE: Excellent

TEMPERATURE RESISTANCE: to 500f substrate.

FLEXIBILITY: Good **WEATHERING:** Good

ABRASION RESISTANCE: N/E

SUBSTRATES: May be applied to both ferrous and non-ferrous metals, glass, ceramics, and plastics as well as over other paints and coatings.

TOPCOAT REQUIRED: CilGen LTC

SPECIAL TREATMENT: None

COMPATIBILITY WITH OTHER COATINGS:
Excellent

THEORETICAL SOLIDS CONTENT OF MIXED MATERIAL: <30% WT.

PRIMER: CilGen LTC

MIXING: Stir well.

RECOMMENDED DRY FILM THICKNESS PER COAT: .0003" to .0004"

THEORETICAL COVERAGE: @ 500 Sq. Ft. Gallon

BURNISHING: None

SHELF LIFE: 1 year.

COLOURS: Various colors

ORDERING INFORMATION

Prices may be obtained from Tech Line Coatings, Inc. sales representative or main office.

APPROXIMATE SHIPPING WEIGHT: 904gr per L

FLASH POINT: 26C/79F

SURFACE PREPARATION: All parts must be absolutely free of all oils, grease, moisture, dust, scale or corrosion.

FINAL CLEAN: Degrease using Acetone or similar solvent that leaves no residue. DO NOT USE petroleum based solvents,

APPLICATION TEMPERATURES:

	<u>Material Surfaces Ambient Humidity</u>			
Normal	18-30°C	18-30°C	16-32°C	65-85%
Minimum	13°C	13°C	10°C	50%
Maximum	35°C	38°C	38°C	95%

SPRAY: Apply coating in light fog passes (approximately 20% overlap) to achieve a thickness of .0003" to .001". Use sufficient air volume for correct operation of equipment.

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(Minimum 30 PSI) Minimum air, coating and part temperature should be 65f, if below warm up part and coating. Spray at a right angle to part with a 1mm or smaller nozzle size. Wait approximately 10 minutes between coats. The number of coats required will depend on the depth of color desired. Do NOT wait more than 20 minutes before applying a second or any subsequent coats.

SPRAY GUN & Mfr.: Any conventional unit. Recommended gravity feed type touch-up gun. (Important that nozzle size be 1mm or less) Clean IMMEDIATELY after use, with Acetone.

DRYING TIME: @60 minutes

FINAL CURE: Air curing. Cure requires 24 hours minimum at temperatures above 18C / 65F. Chemical resistance is in 24 hours maximum hardness takes 7 days.

VENTILATION AND SAFETY: When used in enclosed areas, thorough air circulation must be provided during and after application until the coating is cured. The ventilating system should be capable of preventing fine particulate matter from exceeding TLV limits. In addition to proper ventilation, fresh air respirators or fresh air hoods must be used by all application personnel. Where flammable solvents exist, explosion proof lighting equipment must be used. Hypersensitive persons should wear protective clothing, gloves and/or protective cream on face, hands and all exposed areas.

APPLICATION INSTRUCTIONS

These instructions are not intended to show product recommendations for specific service. They are issued as an aid in determining correct surface preparation, mixing instructions and application procedure. It is assumed that the proper product recommendations have been made. Those instructions should be followed closely to obtain the maximum service from the materials.

CLEAN UP: Acetone or similar solvents, immediately.

STORAGE CONDITIONS: (Store indoors)

Temperature: 10-43 °C

Humidity: 0-100%

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Note: N/E = Not Established

N/A = Not Applicable