



GLOBAL REFINISH
SYSTEM

Product Information

2K Chromatic Sealer

D8070 White
D8071 Black
D8072 Gray
D8073 Red
D8074 Yellow
D8075 Blue

Product Description

The 2K Chromatic Sealer is a premium quality primer sealer for today's advanced technology finishes. The fast drying 2K Chromatic Sealers have superior flow properties and excellent gloss holdout.

2K Chromatic Sealers can be used over sanded original finishes and/or properly prepared and treated bare steel, aluminum, fiberglass and plastic. It is available in six colors.

Preparation of Substrate



In all cases, wash with soap and water, then select the appropriate Global substrate cleaner (See GLG-142 Global Cleaners bulletin for selection and usage instructions), and ensure that the substrate is thoroughly cleaned and dried both before and after preparation work.



Original Paintwork should be sanded using European P400 / U.S. 360 grit discs (dry) or European P600 / U.S. 400 grit paper (wet). Exposed metal should be spot-primed with a suitable bare metal primer (see below).



Aluminum, Bare Steel and Galvanized Steel must be clean, rust-free and abraded thoroughly using European P180 / U.S. 180 to European P280 / U.S. 240 grit paper (wet). These substrates **must be primed with one coat of D831 Chromate-Free Wash Primer or D8099 Anti-Corrosion Etch Primer**. When applying 2K Chromatic Sealers over the D831 or D8099, only use D897 hardener in the 2K Chromatic Sealer. **Do not use D884 in the sealer over D831 or D8099**. Additional film build over the D831/D8099 primed sections is strongly recommended. A minimum of 1.75 mils of the 2K Chromatic Sealer should be applied in two coats. With the higher film build of 2K Chromatic Sealer, additional flash time for the sealer may be necessary. See GLG148 - *Using the 2K Chromatic Sealer over D831 or D8099*, for specific applications instructions.

Electrodeposition Primer must be thoroughly cleaned per GLG-142 and may then be directly overcoated with the 2K Chromatic Sealer as a Wet-on-Wet Sealer without abrading.

Polyester Body Fillers should be dry sanded using European 280 / U.S. 240 grit paper.

Fibre Glass and SMC should be dry sanded using European P280 / U.S. 240 grit paper.

Plastic should be dry sanded with European P600 / U.S. 400 (use a finer grit for softer plastics) and prime first with D820 Plastic Adhesion Promoter.

APPLICATION GUIDE

Mix Ratio:



2K Chromatic Sealer : 6 Vols
D884 or D897 : 1 Vol
D-Thinners : 3 Vol

Warning: When applying 2K Chromatic Sealers over the D831 or D8099, only use D897 hardener in the 2K Chromatic Sealer. **Do not use D884 in the sealer over D831 or D8099.** Additional film build over the D831/D8099 primed sections is strongly recommended. A minimum of 1.75 mils of the 2K Chromatic Sealer should be applied in two coats. With the higher film build of 2K Chromatic Sealer, additional flash time for the sealer may be necessary. See GLG148 - Using the 2K Chromatic Sealer over D831 or D8099, for specific applications instructions.



Potlife:
 @ 21°C / 70°F 1 hour

Hardener Selection:

D884 Spot and Panel Applications
 D897 Air Dry / General Purpose
 For exceptional conditions of temperature and humidity 1/2 – 1 oz of D886 Extender per ready-to-spray U.S. quart is recommended.

Thinner Selection

D870 Up to 18° C / 65°F
 D871 18° – 25°C / 65° – 77°F
 D872 25° – 35°C / 77° – 95°F
 D873 Over 35°C / 95°F
 D8700 May replace up to 10% recommended thinner levels in very warm conditions.

Additives:



D814 may be used to flexibilize any of the 2K Chromatic Sealers

2K Chromatic Sealer:	6 Vols	2K Chromatic Sealer	
D884 or D897:	1 Vol	Ready-to-Spray:	10 vols
D-Thinners:	3 Vols	D814:	1 Vol
D814:	1 Vol		

Spraygun set-up:



Fluid Tip 1.4 – 1.6 mm or equivalent
Spray Viscosity 20 – 25 secs #2 ZAHN (Signature type) @ 21°C (70°F)

Spray pressure:

HVLP at air cap 10 PSI
Conventional at spray gun 40 – 455 PSI

Number of coats:



Apply 1 – 2 wet coats
Film build per wet coat 3.0 mils
Dried film build per coat 1.0 mils

Flash off at 20°C / 68°F:



Between coats 5 – 10 minutes
Before stoving 5 – 10 minutes
Before Topcoating 15 minutes @ 21°C (70°F) for 1 coat
 30 minutes @ 21°C (70°F) for 2 coats
 After 72 hours, sealer must be sanded. If sanded film is below 1 mil, sealer must be reapplied

APPLICATION GUIDE

Drying times:



Dust-free 20°C / 68°F 10 minutes

Dry to handle
20°C / 68°F 1 hour



Tape Time
20°C / 68°F 1½ hour
60°C / 140°F 30 minutes*



IR (Infrared)
Medium Wave 10 minutes
Short Wave 5 minutes



* Stoving times are for quoted metal temperature. Additional time must be allowed during force dry to allow metal to reach recommended temperature.

Overcoat/Recoat



Envirobase or any Global Topcoat 15 minutes @ 21°C (70°F) for 1 coat
30 minutes @ 21°C (70°F) for 2 coats
After 72 hours, sealer must be sanded. If sanded film is below 1 mil, sealer must be reapplied.



Grade wet P1000 / U.S. 500 grade paper

Grade dry P1000 / U.S. 500 grade paper

Performance Guidelines

- The use of HVLP spray equipment can give an increase in Transfer efficiency of around 10% depending upon the make and model of equipment use.
- For all substrates except unsanded electrodeposition primer, ensure that the surface is thoroughly sanded to the panel edge or to a distance several centimeters beyond the damaged area, whichever is the smaller.
- Do not attempt spot repair on original or refinish thermoplastic applications, lacquer or 1K finishes.
- Partially used cans of hardener must be carefully closed.

Technical Data:

Total dry film build:

Minimum 25µ / 1.0 mil

Maximum 37µ / 1.5 mils

Film build per wet coat 3.0 mils

Dried film build per coat 1.0 mils

Theoretical coverage 14.1 m² per litre / 573 sq.ft. per US gal.

Theoretical coverage in m²/litre and sq.ft./US gal. ready-to-spray (RTS), giving 25µ (1.0 mil) dry film thickness

Percent solids by volume RTS 35.7

VOC

(2K Chromatic Sealer) 468 gms per litre / 3.9lbs per U.S. gallon

(2K Chromatic Sealer:
Hardener: Thinner, 6:1:3) 552 gms per litre / 4.6lbs per U.S. gallon

Product Compatibility:

2K Chromatic Sealers are compatible over:

D820 Plastic Adhesion Promoter	D831 Chromate Free Wash Primer**	D8002 UHS Surfacer*
D822 Corrosion Resistant Primer*	D839 2K Primer Surfacer / Sealer*	D8099 Anti-Corrosion Etch Primer**
D824 Prime-Fill Low VOC 2K Surfacer*	D848 Waterborne 2K Primer Surfacer*	DTM Uniprime® Direct to Metal
D825 2K Tintable Surfacer*	D860 Low VOC Primer Surfacer*	Primer Surfacer*

* Multiple coat surfacer applications only. Must be fully cured and sanded.

** Additional film build over the D831/D8099 primed sections is strongly recommended. A minimum of 1.75 mils of the 2K Chromatic Sealer should be applied in two coats. See GLG148 - Using the 2k Chromatic Sealer over D831 or D8099, for specific applications instructions.

2K Chromatic Sealers may be topcoated with:

Global DG Direct Gloss Colour Global BC Basecoat Colour DGLV Direct Gloss Low VOC Colour Envirobase

Mix Ratio:



2K Chromatic Sealer : 6 Vols
 D884 or D897 : 1 Vol
 D-Thinners : 3 Vol

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Potlife
 @ 21°C / 70°F: 1 hour

Hardener Selection:

D884 Spot and Panel Applications
 D897 Air Dry / General Purpose

For exceptional conditions of temperature and humidity 1/2 – 1 oz of D886 Extender per ready-to-spray U.S. quart is recommended.

Thinner Selection:

D870 Up to 18° C / 65°F
 D871 18° – 25°C / 65° – 77°F
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 D873 Over 35°C / 95°F
 D8700 May replace up to 10% recommended thinner levels in very warm conditions.

Additives:



D814 may be used to flexibilize any of the 2K Chromatic Sealers

2K Chromatic Sealer: 6 Vols	or	2K Chromatic Sealer Ready-to-Spray: 10 vols
D884 or D897: 1 Vol		D814: 1 Vol
D-Thinners: 3 Vols		
D814: 1 Vol		

Air Pressure:



HVLP: 10 PSI
 Conventional: 40 – 45 PSI
 Fluid tip: 1.4 – 1.65 mm or equivalent

Application:



Apply: 1 – 2 coats
 Between coats: 5 – 105 minutes
 Before stoving: 5 – 10 minutes

Dry Times:



Dust-free 20° C / 68° F: 10 minutes

Dry to handle 20° C / 68° F: 1 hour



Tape Time 20° C / 68° F: 1 1/2 hours
 60° C / 140° F: 30 minutes*



IR (Infrared)

Medium wave: 10 minutes
 Short wave: 5 minutes



Overcoat with Envirobase or any Global Topcoat: 15 minutes @ 21°C (70°F) for 1 coat
 30 minutes @ 21°C (70°F) for 2 coats
 After 72 hours, sealer must be sanded. If sanded film is below 1 mil, sealer must be reapplied.

* Stoving times are for quoted metal temperature. Additional time must be allowed during force dry to allow metal to reach recommended temperature.

Health and Safety:

See Material Safety Data Sheet and Labels for additional safety information and handling instructions.



- The contents of this package may have to be blended with other components before the product can be used. Before opening the packages, be sure you understand the warning messages on the labels and MSDS's of all the components, since the mixture will have the hazards of all its parts.
- Improper handling and use, for example, poor spray technique, inadequate engineering controls and/or lack of proper Personal Protective Equipment (PPE), may result in hazardous conditions or injury.
- Follow spray equipment manufacturer's instructions to prevent personal injury or fire.
- Provide adequate ventilation for health and fire hazard control.
- Follow company policy, product MSDS and respirator manufacturer's recommendations for selection and proper use of respiratory protection. Be sure employees are adequately trained on the safe use of respirators per company and regulatory requirements.
- Wear appropriate PPE such as eye and skin protection. In the event of injury, see first aid procedures on MSDS.
- Always observe all applicable precautions and follow good safety and hygiene practices.

Emergency Medical or Spill Control Information (304) 843-1300; In Canada (514) 645-1320

Materials described are designed for application by professional, trained personnel using proper equipment and are not intended for sale to the general public. Products mentioned may be hazardous and should only be used according to directions, while observing precautions and warning statements listed on label. Statements and methods described are based upon the best information and practices known to PPG Industries. Procedures for applications mentioned are suggestions only and are not to be construed as representations or warranties as to performance, results, or fitness for any intended use, nor does PPG Industries warrant freedom from patent infringement in the use of any formula or process set forth herein.

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