

CONCEPT® Acrylic Urethane

DCC

CONCEPT® (DCC) Acrylic Urethane is a premium quality, single stage, two component refinish product designed to offer exceptional gloss and color match. It is available in conventional single-stage solid and metallic colors and can be used over all properly prepared OEM Finishes and cured air dried finishes.

CONCEPT® Color is designed with today's hi-tech, high production shop in mind.

Features

- Excellent Color Match
- Can Be Air Dried or Force Dried
- Premium Gloss

Advantages

- Invisible Repairs
- Versatile
- Matches Luxury Car Finishes

Benefits

- Can Match Virtually Any Solid Color
- Metallic Colors Available
- Can Use In Existing Shop Conditions

Required Products for CONCEPT® (DCC) Acrylic Urethane

	DT Reducers
Cool Temperatures (60 – 70°F)	DT860
Medium Temperatures (65 - 80° F)	DT870
Warm Temperatures (75 – 90°F)	DT885
Hot Temperatures (85° and above)	DT895
Retarder (May replace up to 25% of DT895 in very hot conditions)	DT8110

	Hardeners
Hot Temperature / Force Dry	DCX9
General Purpose	DCX61
Urethane Hardener	DU5
Urethane Hardener	DU6
SUPERCHARGER™ Hardener	DFX11

Compatible Surfaces

CONCEPT® DCC may be applied over:

- OEM Basecoat/Clearcoat (Must be sanded)
- OEM Enamels (Must be sanded)
- OEM & Refinish Lacquers (Must be sanded & sealed)
- DPLF Epoxy Primer
- DPX170/171 Non-Chrome Self Etching Primer **
- DPX801 Universal Plastics Adhesion Promoter
- DX 1791/1792 Self Etching Primer **
- DS1002 UV Cured Primer Surface
- DZ KONDAR® Acrylic Primer Surfacer *
- DX54 ROADGUARD® Chip Resistant Coating
- K36 PRIMA™ Acrylic Urethane Primer Surfacer
- K36 PRIMA™ Acrylic Urethane Wet-On-Wet Sealer ***
- K38 High Build Primer Surfacer
- K93 Tintable Primer Surfacer/Sealer
- NCP250 NCT® Primer Surfacer
- NCP270/271 Corrosion Resistant Primer
- NCP272 Tintable Corrosion Resistant Primer
- NCP280 2.1 VOC Primer Surfacer
- NCS1990 Compliant Wet-On-Wet Sealer
- NCS1996 Low VOC Sealer
- NCS2000 Series Sealer
- SX1050 & SXA1050 Plastic Adhesion Promoter
- SX1056 Flexible 2K Sealer
- SX1057 Flexible 2K Surfacer
- SX1060 Rollable 2K Primer Surfacer
- V-SEAL™ DAS3025 Acrylic Urethane Sealer
- V-Prime™ DPS3055 Acrylic Urethane Surfacer

* Must be sealed

** Must be primed or sealed!

*** Must be finished in 2hrs.
See K36 Bulletin, P-169S



DCC

Directions for Use

Preparation:



DCC colors are designed to be applied over properly cleaned, sanded and primed surfaces.

- Wash painted surfaces thoroughly with soap and water to remove water-soluble contaminants, then clean with DX Cleaner (see P178) or SX1005 0.4 VOC Cleaner.
- Sand with 400 – 600 grit sandpaper or equivalent.
- Re-clean with DX Cleaner or SX1005 0.4 VOC Cleaner. Prime or seal as needed.

Mixing Ratios:



Use the following ratio with **DU5 or DU6 Hardener:**

DCC	:	DT Reducer	:	DU5 or DU6
4	:	1	:	2

Pot life of the mixture is 2 - 4 hours at 70°F (21°C)



Use the following ratio with **DCX9 or DCX61 Hardener:**

DCC	:	DT Reducer	:	DCX9 or DCX61
4	:	2	:	1

Pot life of the mixture is 1 - 3 hours at 70°F (21°C)



Use the following ratio with **DFX11 Hardener:**

DCC	:	DT Reducer	:	DFX11
2	:	1	:	2

life of the mixture is 1 - 2 hours at 70°F (21°C)

Flexing DCC:



Use the following ratio with **DU5 or DU6 Hardener:**

DCC	:	DT Reducer	:	DU5 or DU6	:	DX814
4	:	1	:	2	:	1

Pot life of the mixture is 2 hours at 70°F (21°C)



Use the following ratio with **DCX9 or DCX61 Hardener:**

DCC	:	DT Reducer	:	DCX9 or DCX61	:	DX814
2	:	1	:	1	:	1

Pot life of the mixture is 3 hours at 70°F (21°C)

Tinting:

DCC color may be tinted with DMC toners or other DCC colors only.

Additives:



DX84 Accelerator may be added to DCC color up to 1 oz per RTS quart and **DX87 Extender** may be added up to 1/2 oz per RTS quart of DCC, when using DCX or DU Hardener.

DO NOT USE DX84 or DX87 when DFX11 is used with DCC. DXR81 Accelerator may be added to the DCC color, up to 1/2 ounce per RTS quart when using DFX11.

DX 73 Fisheye Eliminator, when necessary, can be used in DCC Color up to 1/2 ounce per RTS quart.

Spraygun Set-up:



Fluid Tip:

1.3 – 1.6 mm or equivalent

Spray Viscosity

18 – 22 seconds #2 Zahn @ 68°F (20°C)

Air Pressure:

8 – 10 PSI at the cap for HVLP guns

40 – 50 PSI at the gun for conventional guns

Directions for Use

Number of Coats:



Apply:	2 wet coats or until hiding is achieved.
Film build per wet coat	3.0 – 3.7 mils
Dry film build per coat	1.1 – 1.3 mils

Drying Times:



	<u>DCX9 or DCX61</u>	<u>DU5 or DU6</u>	<u>DFX11</u>
Between Coats:	10 – 15 minutes	10 – 15 minutes	5 – 10 minutes
Dust Free	30 – 50 minute	30 – 40 minutes	10 – 15 minutes
Tack Free	2 – 3½ hours	2 – 3½ hours	2 – 3½ hours
Tape Free	8 – 10 hours	8 – 10 hours	8 – 10 hours
Air Dry:	6 – 8 hours @ 70°	6 – 8 hours @ 70°	6 – 8 hours @ 70°
Purge Time	0 – 10 minutes	0 – 10 minutes	0 – 10 minutes
Force Dry	40 minutes @ 140°	15 – 25 minutes	15 – 30 minutes



IR (Infrared)	
Medium Wave	10 – 15 min depending on color
Short Wave	8 minutes depending on color

Blending:

DCC Color may also be blended by taking the DCC Color that you have in your gun cup and reduce the mixture with an equal amount of **DX840 Blend-Ease Universal Blending Solvent** (See P-235 for instructions). Apply this “over” reduced material to the dry edges. If additional blending is necessary, reduce the blend mixture with another equal part of DX840. Straight DX840 may also be misted onto the blend edge.

Note: Spot repairs cannot be done on OE or Refinish lacquers due to adhesion problems. Lacquer panel repairs must be sanded and sealed prior to applying DCC Color.

Polishing:

Metallics can be compounded but do not sand.

After 24 hours @ 70°F (21°C) solid colors can be sanded with 1200 – 2000 grit sandpaper and compounded. In all cases, use a fine compound and polishing pad.

Note: If sanding and/or polishing is required, an extra coat of DCC Color is recommended.

Repair and Recoat:

DCC color can be recoated immediately after the force dry/cooling cycle or 8 hours air dry at 70°F (21°C). DCC color must be sanded before recoating with primer, color or clear.

Compatible Clearcoats:

DC3000 *DELTRON*® High Veolcity Clearcoat
 DCU2002 *CONCEPT*® Urethane Clear
 DCU2021 *CONCEPT*® Urethane Clear
 DCU2035 *DIAMOND COAT*® PLUS Urethane Clear
 DCU2042 Low VOC Speed Clear
 DCU2082 *STRATOCLEAR*™

Clearcoating:

Option 1 - Clearcoating

Dry time to Clearcoat

<u>Hardener in DCC Color</u>	<u>Solid Color</u>	<u>Metallic Color</u>
DCX9 or DCX61	2 hours	4 hours (DCD35 or DCU2035) 6 hours (all others)
DU5 or DU6	2 hours	4 hours
DFX11	1 hour	2 hours

Option 2* - Clear mixed with the last coat of DCC color

- Ready-to-spray (RTS) DCU2002, DCU2021, DCU2035 & DCU2042 with DCX Hardeners can be mixed with RTS DCC Color with DCX Hardeners.
- RTS DCD35 can be mixed with RTS DCC Color with DU Hardeners.
- RTS DCU2002 & DCU2021 with DFX11 Hardeners can be mixed with RTS DCC Color with DFX11 Hardeners.

* For best results allow 15 – 20 minutes flash before mixing clears in last coat.



Technical Data:

- (A) *Ready-to-spray (4:2:1, DCC : DT885 : DCX61)*
- (B) *Ready-to-spray (4:1:2, DCC : DT885 : DU5)*
- (C) *Ready-to-spray (2:1:2, DCC : DT885 : DFX11)*

	(A)	(B)	(C)
VOC (Pkg.) lb./US gal.	3.8 – 4.7	3.8 – 4.7	3.8 – 4.7
VOC (RTS) lb./US gal.	5.0 max.	5.0 max.	5.0 max.
Total Solids by Volume (RTS)	32.3 – 39.5%	34.3 – 41.5%	32.5 – 37.5%
Sq. Ft. Coverage / US gal. (1 mil at 100% Transfer Efficiency)	518 – 634	550 – 660	521 – 602
Film Build per Wet Coat	3.0 – 3.7 mils	3.0 – 3.7 mils	3.0 – 3.7 mils
Dry Film Build per Coat	1.1 – 1.3 mils	1.1 – 1.3 mils	1.1 – 1.3 mils
Recommended Dry Film	2 – 3 mils	2 – 3 mils	2 – 3 mils

Important:

The contents of this package must 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 of all components, since the mixture will have the hazards of all its parts. Improper spray technique may result in a hazardous condition. Follow spray equipment manufacturer's instructions to prevent personal injury or fire. Follow directions for respirator use. Wear eye and skin protection. Observe all applicable precautions.

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

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.

PPG Automotive Refinish

World Leaders In Automotive Finishes

PPG Industries
19699 Progress Drive
Strongsville, OH 44149

PPG Canada Inc.
2301 Royal Windsor Drive
Mississauga, Ontario L5J 1K5