Compliant Wet-on-Wet Sealer

NCS1990

NCS1990 Compliant Wet-on-Wet Sealer has been specifically developed as a premium quality, 3,5 VOC sealer. This two-component sealer is isocyanate-free and can be used over a variety of substrates and PPG primers. NCS1990 is intended to be the final step before application of the PPG topcoat. This sealer may be tinted with DMC or DMD (non-basecoat) bases.



Features	Advantages	Benefits
• Tintable	• Choice of colors	• Better hiding of topcoat color
• Compatible with a wide variety of PPG topcoats	• Versatile	• Fewer products required
• Low VOC	• Compliant with current VOC regulations	

Compatible Surfaces:

NCS1990 may be applied over:

- Properly cleaned and sanded steel and galvanized steel★
- Properly cleaned and sanded aluminum★ and fiberglass+
- Electrodeposition (E-Coat) Primer +
- DF Body Filler+
- DPHS52 Low VOC Primer+
- DPX170 Wash Primer
- DPX171 Non-Chrome Self Etching Primer
- DPX801 Universal Plastics Primer
- DX1791 Self Etching Wash Primer
- NCP Corrosion Resistant Primer+
- NCP250 NCT® Primer Surfacer+
- NCP280 2.1 VOC Primer Surfacer+
- K200 Acrylic Primer Surfacer+
- K36 PRIMA™ Acrylic Primer Surfacer+
- K38 High Build Primer Surfacer+
- K93 Tintable Primer Surfacer+
- OEM Basecoat/Clearcoat and OEM Enamels+

★Bare metal substrates must be thoroughly cleaned and sanded and either treated with the appropriate two step metal treatments or primed with DX1791, DPX170 or DPX171 before NCS1990 sealer application.

+Must Be Cured and Sanded

	Catalyst
Compliant Sealer Catalyst	NCX1995

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Directions for Use

NCS1990

Preparation





- Wash the area to be painted with soap and water, then clean with DX330 ACRYLI-CLEAN® Wax and Grease Remover, DX393 0.6 VOC cleaner or DX394 1.4 VOC cleaner.
- Sand old finishes with 320-400 grit dry by hand or machine, or 600 grit wet. Sand bare metal areas completely with 180-240 grit (machine).
- Re-clean with DX320 Fast Evaporating Cleaner, DX330, DX393 or DX394. Final wipe with a clean damp cloth to remove any DX393 or DX394 residue.
- Steel and aluminum substrate must have a two step metal treatment or wash primer coating before applying NCS1990.
- Prime aluminum within 8 hours. Prime carbon steel immediately after cleaning.

Mixing Ratios



Standard Mix

NCS1990	:	NCX1995
2	:	1

Tinted Mix Pre-mix the NCS1990 and NCX1995 for 30 sec. then add reducer and tint and mix until uniform. DO NOT use Basecoat only bases. The choosen tint should have a 4.6 lbs./gal. or less VOC to reach RTS VOC value listed in the Technical Data section.



NCS1990	:	NCX1995	:	DT Reducer	:	DMC, DCC, DMD
4	:	2	:	1	:	1

Pot life for both tinted and un-tinted systems is 1 hour at 70°F (21°C). Pot life is shortened as temperatures increase.

Application and Dry Times






Apply:	1-2 wet coats
Fluid Tip:	1.4 -1.6 mm or equivalent
Air Pressure:	5-10 PSI at the air cap for HVLP guns 40-50 PSI at the gun for conventional guns
Between Coats:	5-10 minutes
Dry to Topcoat:	20 minutes at 70°F (21°C) or 10 minutes at 90°F (32°C) for 1 coat. (Minimum times may be lower at higher temperatures, minimum film builds or with higher air flow booths)
Dry to Scuff:	75 minutes at 70°F (21°C) or 60 minutes at 90°F (32°C) for 1 coat. (NCS1990 must be scuffed after the listed times)
Force Dry (for repairs):	30 minutes at 140°F (60°C)
IR Medium Wave:	20 minutes
IR Short Wave:	10 minutes

Compatible Topcoats

NCS1990 may be topcoated with:

CONCEPT® (DCC) Acrylic Urethane

CONCEPT® LV (CLV) Acrylic Urethane

DELSTAR®/ DELTHANE® (DAR/DXR 80) Acrylic Polyurethane Enamel

DELTRON® (DBU) Universal Basecoat
- **must** be applied wet-on-wet or scuff the NCS1990 before DBU application if dry to scuff times listed in the Application and Dry Time section are reached.

DELTRON® 2000 (DBC/DX57)) Basecoat/Activator
- DX57 Activator must be used in DBC color over NCS1990.

Technical Data

Properties	Standard Mix (a)	Tinted Mix (b)
VOC (Package) lb./US Gal.	3.5	3.5
VOC (RTS) lb./US Gal.	3.5	4.1 max.
Total Solids by Volume	53.5%	45.0%
Sq Ft Coverage/US Gal. (1 mil at 100% Transfer Efficiency)	859	723
Film build per coat	1.0-1.4 mils	1.0-1.4 mils
Recommended wet film per coat	2.0 mils	2.0 mils
Recommended dry film	1.2-2.0 mils	1.2-2.0 mils

(a) Ready-to-Spray (2 : 1, NCS1990 : NCX1995)

(b) Ready-to-Spray (4 : 2 : 1 : 1, NCS1990 : NCX1995 : DT885 : DMC902)

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 (412) 434-4515; IN CANADA (514) 645-1320
PPG INDUSTRIES, 19699 PROGRESS DRIVE, STRONGSVILLE, OHIO 44149
PPG CANADA, INC. 2301 ROYAL WINDSOR DRIVE, MISSISSAUG, ONATRIO L5J 1K5

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