



98-18, *Publication Date: SEPTEMBER 8, 1998*

Paint - Exterior - Worldwide Recommended Paint Materials For Warranty And After Warranty Repairs	Article No. 98-18-2
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FORD:

1997 ASPIRE, PROBE, THUNDERBIRD
1997-98 CONTOUR, CROWN VICTORIA, ESCORT, MUSTANG, TAURUS

LINCOLN-MERCURY:

1997 COUGAR
1997-98 CONTINENTAL, GRAND MARQUIS, MARK VIII, MYSTIQUE, SABLE, TOWN CAR, TRACER

LIGHT TRUCK:

1997 AEROSTAR
1997-98 ECONOLINE, EXPEDITION, EXPLORER, F SUPER DUTY, F-150-350 SERIES, F-47,
MOUNTAINEER, RANGER, VILLAGER, WINDSTAR
1998 NAVIGATOR

MEDIUM/HEAVY TRUCK:

1997-98 AEROMAX, CARGO SERIES, F & B SERIES, L SERIES, LOUISVILLE

This TSB article is being republished in its entirety to add additional paint information.

ISSUE:

Ford Motor Company's goal is to eliminate paint related repeat repairs and increase customer satisfaction. To meet this goal, Ford has tested refinish paint materials that are used for warranty. Tests conducted were designed around OEM Refinish Material Reliability and Durability Standards.

ACTION:

Ford Customer Service Division (FCSD) has released a paint material specification (WSS-M2P100-D) to the major worldwide paint supply companies for testing refinish paint systems. These paint systems are used for refinishing service parts as well as repair steel and plastic OEM finishes.

SYSTEMS TESTED

Ford Motor Company has completed testing of refinish paint materials that are compliant to U.S. "National Rule," "Canadian Rule" and European VOC (Volatile Organic Compounds) regulations.

NOTE:

TESTING OF CALIFORNIA VOC COMPLIANT SYSTEMS WILL BEGIN 9/98 DUE TO A RECENT MORATORIUM REQUIRING NEW EMISSION COMPLIANT PRODUCTS.

SELECTION AND PREPARATION

Each paint manufacturer was asked to submit worldwide "in-use" paint systems for testing. The paint materials used for testing were obtained by Ford from local paint jobbers and distributors and/or shipped in from Europe. Employees of each paint company prepared and sprayed the test panels. All testing was completed at the Ford Central Laboratory facility.

SUBSTRATES AND TESTS

The paint materials approved from these specifications were tested over the following substrates: cold rolled steel, E-coated steel, bare galvanized steel, sanded OEM finish, and TPO plastic. A select group of tests including salt spray, initial adhesion, chipping, fuel resistance, and thermal shock were used for screening. As the companies passed the screening tests, they were required to complete the balance of the tests listed in the specifications. Each panel was tested and reviewed per OEM testing methods.

PAINT PRODUCT CHANGES

If a paint company decides to introduce a new product into a tested system (i.e., new primer, same clearcoat), the entire system will require retesting. Systems will only be tested once a year. Cost of testing will be the responsibility of the paint suppliers.

APPROVED SUPPLIERS AND MATERIALS

The Charts following this article (Figures 1-7) indicate paint suppliers and materials. Dealers should begin to use the recommended paint materials as soon as practical. Dealers without a body shop should provide a copy of this bulletin to the independent body shop performing their warranty repairs. The products listed in this bulletin may be made mandatory sometime in the future. As a result, dealers that have jobber/paint company contractual agreements should only contract with recommended suppliers (when existing contracts expire) .

WORLDWIDE COMMON PAINT SYSTEMS FOR MATERIALS TESTING APPROVALS

DUPONT													
Batch Primer	Activator	Thinner	Primer Surface	Flex Agent	Activator	Thinner	Basecoat	Activator	Thinner	Clearcoat	Activator	Thinner	Flex Agent
United States													
615S	614S 616S		1120S 1140S		1125S 1130S 1135S		ChromaBase	12305S	7155S 7165S 7175S 7185S 7195S	7800S		7875S 7895S 7896S	
615S	614S 616S		1120S 1140S		1125S 1130S 1135S		ChromaPremier	12306S	7156S 7166S 7176S 7186S 7196S	72200S	12305S	12365S 12375S 12365S	
Canada													
610R	615R		1020R 1044R		125S 1025R 1055R		ChromaBase	12305S	7155S 7165S 7175S 7185S 7195S	8500S	8525S	8570S 8580S	
610R	615R		1020R 1044R		125S 1025R 1055R		ChromaPremier	12306S	7156S 7166S 7176S 7186S 7196S	72200S	12305S	12365S 12375S 12365S	
Plastic													
United States													
Adhesion Promoter			Primer										
2922S			2340S		12305S 1075S 12365S		ChromaBase	12305S	7155S 7165S 7175S 7185S 7195S	7800S		7875S 7895S 7896S	2330S
Canada													
800R			2940S		12305S 12365S		ChromaBase	12305S	7156S 7166S 7176S 7186S 7196S	8500S	8525S	8570S 8580S	805R

Figure 1 - Article 98-18-2

WORLDWIDE COMMON PAINT SYSTEMS FOR MATERIALS TESTING APPROVALS														
ICI AUTO CO. OF														
Etch Primer	Activator	Thinner	Primer Surfacer	Flex Agent	Activator	Thinner	Basecoat	Activator	Thinner	Clearcoat	Activator	Thinner	Flex Agent	
P665-713CFE	P275-210		P665-357 WOW Sealer	20%P100-2020	P210-796 P210-798	P850-1692 P850-1693 P850-1694 P850-1695	P665 (W) Aquebase	P635-2018	P680-230	P190-643	P210-853 P210-855 P210-856 P210-857	P850-1692 P850-1693 P850-1694 P850-1695		
P665-713CFE	P275-210		P665-357 WOW Sealer	20%P100-2020	P210-796 P210-798	P850-1692 P850-1693 P850-1694 P850-1695	P422 (C) 2K	P210-796 P210-798	850-169 P850-1692 P850-1693 P850-1694 P850-1695	P190-643	P210-853 P210-855 P210-856 P210-857	P850-1692 P850-1693 P850-1694 P850-1695		
Europe/Others														
P665-713CFE	P275-210		P665-693 HI Dur	20%P100-2020	P210-796 P210-798	P850-1692 P850-1693 P850-1694 P850-1695	P665 (W) Aquebase	P635-2018	P680-230	P190-620	P210-796 P210-798	P850-1692 P850-1693 P850-1694 P850-1695		
P665-713CFE	P275-210		P665-693 HI Dur	20%P100-2020	P210-796 P210-798	P850-1692 P850-1693 P850-1694 P850-1695	P422 (C) 2K	P210-796 P210-798	850-169 P850-1692 P850-1693 P850-1694 P850-1695	P190-620	P210-796 P210-798	P850-1692 P850-1693 P850-1694 P850-1695		
Plastic A.P.														
P672-212			P665-357 WOW Sealer	20%P100-2020	P210-796 P210-798	P850-1692 P850-1693 P850-1694 P850-1695	P665 (W) Aquebase	P635-2018	P680-230	P190-643	P210-853 P210-855 P210-856 P210-857	P850-1692 P850-1693 P850-1694 P850-1695	20%P100-2020	
P672-212			P665-357 WOW Sealer	20%P100-2020	P210-796 P210-798	P850-1692 P850-1693 P850-1694 P850-1695	P422 (C) 2K	P210-796 P210-798	850-169 P850-1692 P850-1693 P850-1694 P850-1695	P190-643	P210-853 P210-855 P210-856 P210-857	P850-1692 P850-1693 P850-1694 P850-1695	20%P100-2020	
Europe/Others														
P672-212			P665-693 HI Dur	20%P100-2020	P210-796 P210-798	P850-1692 P850-1693 P850-1694 P850-1695	P665 (W) Aquebase	P635-2018	P680-230	P190-620	P210-796 P210-798	P850-1692 P850-1693 P850-1694 P850-1695	20%P100-2020	
P672-212			P665-693 HI Dur	20%P100-2020	P210-796 P210-798	P850-1692 P850-1693 P850-1694 P850-1695	P422 (C) 2K	P210-796 P210-798	850-169 P850-1692 P850-1693 P850-1694 P850-1695	P190-620	P210-796 P210-798	P850-1692 P850-1693 P850-1694 P850-1695	20%P100-2020	

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Figure 2 - Article 98-18-2

WORLDWIDE COMMON PAINT SYSTEMS FOR MATERIALS TESTING APPROVALS

PPO

Etch Primer	Activator	Thinner	Primer Surfacer	Flux Agent	Activator	Thinner	Basecoat	Activator	Thinner	Clearcoat	Activator	Thinner	Flux Agent
North America DX1791	DX1792		NCP270		NCX275		DBC	5%DX67	DT880 DT870 DT885 DT895 DT898 DT8110	DCU2002	DCX8	DT880 DT870 DT885 DT895 DT898 DT8110	
Europe/Others Global/Deftron													
D831	D832		D822		D823	D807 D808 D812 D899 D870 D871 D872 D873	Global BC	5%D888	D807 D808 D812 D899 D870 D871 D872 D873	D884	D884	D807 D808 D812 D899 D870 D871 D872 D873	
Pacific A.P. North America DPX801							DBC	5%DX67	DT880 DT870 DT885 DT895 DT898 DT8110	DCU2002	DCX8	DT880 DT870 DT885 DT895 DT898 DT8110	DX814
Europe/Others Global/Deftron													
D820							Global BC	5%D888	D807 D808 D812 D899 D870 D871 D872 D873	D884	D884	D807 D808 D812 D899 D870 D871 D872 D873	D814

GLASUR

Etch Primer	Activator	Thinner	Primer Surfacer	Flux Agent	Activator	Thinner	Basecoat	Activator	Thinner	Clearcoat	Activator	Thinner	Flux Agent
North America 801-1662	985-922	352-50 352-91 352-218	295-50		929-28/2 929-71 929-73	352-50 352-91 352-218	L55	355-55	352-50 352-91 352-218	923-94	929-81 929-83 929-84	352-50 352-91 352-218	
Europe			295-16		929-28/2	352-50 352-91	L55	355-55	352-50 352-91 352-218	923-94	929-81 929-83 929-84	351-50 352-91 352-218	
Pacific A.P. 834-0			295-50	521-111	929-28/2	352-50 352-91 352-218	L55	355-55	352-50 352-91 352-218	923-94	929-81 929-83 929-84	352-50 352-91 352-218	521-111

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Figure 3 - Article 98-18-2

WORLDWIDE COMMON PAINT SYSTEMS FOR MATERIALS TESTING APPROVALS

U-M

Etch Primer	Activator	Thinner	Primer Surfacer	Flex Agent	Activator	Thinner	Basecoat	Activator	Thinner	Clearcoat	Activator	Thinner	Flex Agent
DE-15	PA-18	UR-50	D3-30		PH-12	UR-40 UR-50 UR-60	Diamont	DH-42 DH-46	UR-30 UR-40 UR-50 UR-60 UR-70	DC-92	DH-42 DH-46	UR-30 UR-40 UR-50 UR-60 UR-70	
Plastic A.P. 864			DP-21+Dia. Base	DF-25	PH-80 PH-81	UR-30 UR-40 UR-50 UR-60 UR-70	Diamont	DH-42 DH-46	UR-30 UR-40 UR-50 UR-60 UR-70	DC-92	DH-42 DH-46	UR-30 UR-40 UR-50 UR-60 UR-70	861
Europe/Others Euroxy	Reactive	BC020 BC080	Fast Filler		D-65	BC020 BC080	Diamont	D5000 8%	BC020 BC080 BC040	StarTopHS	D5000	BC020 BC080 BC040	
Plastic A.P. Sealer Plast 80			Fast Filler	R-M Flex	D-65	BC020 BC080	Diamont	D8000 6%	BC020 BC080 BC040	StarTopHS	D5000	BC020 BC080 BC040	R-M Flex

SP ES HECKER!

Etch Primer	Activator	Thinner	Primer Surfacer	Flex Agent	Activator	Thinner	Basecoat	Activator	Thinner	Clearcoat	Activator	Thinner	Flex Agent
3686	3689		8590		3369	3363 3365 3366	293/295		3054 3055 3056 3057 3058	MS 8010	3120	3363 3365 3366	
Primer 4000	3110					3363 3365 3366	293/295		3064 3065 3066 3067 3068	MS 8010	3120	3363 3365 3366	8573
Plastic A.P. 3304			3305			8580 8581	293/295		3064 3065 3066 3067 3068	MS 8010	3120	3363 3365 3366	8573

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Figure 4 - Article 98-18-2

WORLDWIDE COMMON PAINT SYSTEMS FOR MATERIALS TESTING APPROVALS

SIKKENS

Etch Primer	Activator	Thinner	Primer Surfacer	Activator	Thinner	Basecoat	Activator	Thinner	Clearcoat	Activator	Thinner	Flex Agent
Wash Primer CR	Wash Hardener		Colorbuild +33% Elast-o-Actif	Colorbuild Primer Surfacer Activator	Colorbuild Primer Surfacer Hardener	Autobase +10% Elast-o-Actif	Autocryl Hardener Autobase Atomizing Agent	Autobase Reducer Slow	Autoclear II	Autocryl Hardener	Autocryl Reducer Slow	+33% Elast-o-Actif
Plastic A.P.												
Primer PO			Colorbuild +33% Elast-o-Actif	Colorbuild Primer Surfacer Activator	Colorbuild Primer Surfacer Hardener	Autobase +10% Elast-o-Actif	Autocryl Hardener Autobase Atomizing Agent	Autobase Reducer Slow	Autoclear II	Autocryl Hardener	Autocryl Reducer Slow	+33% Elast-o-Actif
Europe/Others												
Washer Primer CR	Wash Hardener		Autocryl Filler Off-White +50% Elast-o-Actif	1.2.3 Hardener	1.2.3 Reducer Slow	Autobase +10% Elast-o-Actif	1.2.3 Hardener	1.2.3 Reducer Slow	Autoclear MS 3000	Autocryl Hardener MS 30	1.2.3 Reducer Slow	+33% Elast-o-Actif
Plastic A.P.												
Primer PO			Autocryl Filler Off-White +50% Elast-o-Actif	1.2.3 Hardener	1.2.3 Reducer Slow	Autobase +10% Elast-o-Actif	1.2.3 Hardener	1.2.3 Reducer Slow	Autoclear MS 3000	Autocryl Hardener MS 30	1.2.3 Reducer Slow	+33% Elast-o-Actif

STANDOX

Etch Primer	Activator	Thinner	Primer Surfacer	Activator	Thinner	Basecoat	Activator	Thinner	Clearcoat	Activator	Thinner	Flex Agent
Standex Etching Adhesion Primer	Standex Etching Adhesion Activator		Standex 2K 4:1 Special Filler	Standex 2K MS Special Hardener	Standex Universal Thinner 11012	Standex MSB Basecoat	Standex MS Special Hardener	Standex MSB Thinner 11060	Standex 2K MS Clear	Standex 2K Low VOC Hardener	Standex Universal Thinner 11012	
Standex 1K Plastic Primer		Standex Thinner 11100	Standex 1K Plastic Filler Grey		Standex Thinner 11100	Standex MSB Basecoat	Standex MS Special Hardener	Standex MSB Thinner 11050	Standex 2K MS Clear	Standex MS Special Hardener	Standex Universal Thinner 11012	Standex 2K Plastic Clear

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Figure 5 - Article 98-18-2

WORLDWIDE COMMON PAINT SYSTEMS FOR MATERIALS TESTING APPROVALS

SHERWIN WILLIAMS		PLASTIC SYSTEMS												
Plastic Primer	Activator	Thinner	Primer Surfacer	Flex Agent	Activator	Thinner	Basecoat	Activator	Thinner	Clearcoat	Activator	Thinner	Flex Agent	
Canada														
UPO7226 UPO7227			P6A47	V2V299	V6V79	US-1 US-2 US-3 US-4 US-5	Ultra 7000 BC	UH-80	BCS600 BCS605 BCS610	CC635	UH80	US-1 US-2 US-3 US-4 US-5		

SHERWIN WILLIAMS		METAL SYSTEMS												
Etch Primer	Activator	Thinner	Primer Surfacer	Flex Agent	Activator	Thinner	Basecoat	Activator	Thinner	Clearcoat	Activator	Thinner	Flex Agent	
South America and Others														
E2G963 with W4K269	R7K981 R7K982 R7K985		P6A47	V2V299	V6V79	US-1 US-2 US-3 US-4 US-5	Ultra 7000 BC	UH-80	BCS600 BCS605 BCS610	CC635	UH80	US-1 US-2 US-3 US-4 US-5		

SHERWIN WILLIAMS		PLASTIC SYSTEMS												
Plastic Primer	Activator	Thinner	Primer Surfacer	Flex Agent	Activator	Thinner	Basecoat	Activator	Thinner	Clearcoat	Activator	Thinner	Flex Agent	
South America and Others														
UPO7226 UPO7227			P6A47	V2V299	V6V79	US-1 US-2 US-3 US-4 US-5	Ultra 7000 BC	UH-80	BCS600 BCS605 BCS610	CC635	UH80	US-1 US-2 US-3 US-4 US-5		

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Figure 6 - Article 98-18-2

WORLDWIDE COMMON PAINT SYSTEMS FOR MATERIALS TESTING APPROVALS

MARTIN SENOUR		METAL SYSTEMS												
Etch Primer	Activator	Thinner	Primer Surfacer	Flex Agent	Activator	Thinner	Basecoat	Activator	Thinner	Clearcoat	Activator	Thinner	Flex Agent	
United States														
8847 with 8877	8848 8849 8845		5103	3084	5150	TS-1 TS-2 TS-3 TS-4 TS-5	Tec/BASE	8876	8880 8882 8881	8889	8876	TS-1 TS-2 TS-3 TS-4 TS-5		

MARTIN SENOUR		PLASTIC SYSTEMS												
Plastic Primer	Activator	Thinner	Primer Surfacer	Flex Agent	Activator	Thinner	Basecoat	Activator	Thinner	Clearcoat	Activator	Thinner	Flex Agent	
United States														
6246 6247			5103	3084	5150	TS-1 TS-2 TS-3 TS-4 TS-5	Tec/BASE	8876	8880 8882 8881	8889	8876	TS-1 TS-2 TS-3 TS-4 TS-5		

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Figure 7 - Article 98-18-2

CONCLUSIONS

Testing of refinish materials will raise standards for these materials. These improved standards will result in improved customer satisfaction.

OTHER APPLICABLE ARTICLES: NONE

SUPERSEDES: 98-9-3

WARRANTY STATUS: INFORMATION ONLY

OASIS CODES: 106000, 190000
