PRODUCT DATA SHEET

URETHANE ACCELERATOR SERIES 44-710

PRODUCT PROFILE

GENERIC DESCRIPTION
Amine and Tin Catalysts

COMMON USAGE
Special additive for most Tnemec urethane coatings affording low temperature application and accelerated cure for rapid handling and recoat situations.

COLOR
Clear Yellow

SPECIAL QUALIFICATIONS
Series 44-710 Urethane Accelerator is ANSI/NSF Std. 61 certified as a component of Series 1, 93, 91-H_2O, and 94-H_2O when used in potable water applications.

TECHNICAL DATA

VOLUME SOLIDS
5.7 ± 1%

CURING TIME POT LIFE MODIFICATIONS
The following table provides data on the approximate curing and pot life times for various Tnemec urethane coatings, when Series 44-710 Accelerator has been added. See Mixing section for amount of accelerator and special instructions for mixing. **Caution:** With the use of Series 44-710 Urethane Accelerator a slight change in gloss may occur in cured finishes.

Approximate Hours Curing Time / Pot Life at 50% R.H.

PRODUCT SERIES NUMBER	DRY-TO-TOUCH	DRY-TO-HANDLE					DRY-TO-RECOAT					POT LIFE				
	35°-75°F 2°-24°C	35°F 2°C	45°F 7°C	55°F 13°C	65°F 18°C	75°F 24°C	35°F 2°C	45°F 7°C	55°F 13°C	65°F 18°C	75°F 24°C	35°F 2°C	45°F 7°C	55°F 13°C	65°F 18°C	75°F 24°C
1 / 394†	¼-1½	2¼	1½	1	¾	½	30	24	20	16	16	8	6½	5	2½	2½
73	½-¾	12	6	4	3	2	20	12	8	7	5	2	2	1½	1	2
90-97	¼	¾	½	½	½	¼	4	4	3	3	2	2	2	2	2	2
91-H_2O	¼	¾	½	½	½	¼	4	4	3	3	2	2	2	2	2	2
90G-1K97 / 94-H_2O/93-H_2O	½	1½	1	1	1	½	8	7	6	5	4	4	4	4	4	4
700 / 1070 / 1078 (V)‡	¼-½	8	4	2½	-	-	10	5	4½	-	-	1	1	1	-	-
701 / 1071 (V)‡	¼-½	12	10	7	-	-	16	11	12	-	-	2¼	2	2	-	-
1072‡	1-2	15	14	9	-	-	24	24	10	-	-	2¼	2	2	-	-

†Values listed are for use with recommended topcoats. Dry to recoat times with itself are: 8 hours at 35°F (2°C), 5 hours at 45°F (7°C), 2 1/2 hours at 55°F (13°C), 2 hours at 65°F (18°C) and 1 3/4 hours at 75°F (24°C). Curing time varies with surface temperature, air movement, humidity and film thickness.

‡**Note:** Due to shortened pot life, 44-710 is not recommended for use above 60°F (16°C) in fluoropolymer products.

VOLATILE ORGANIC COMPOUNDS

SERIES	THINNER	UNTHINNED + 44-710	THINNED MAXIMUM + 44-710
1 / 394		2.90 lbs/gallon (347 g/L)	–
	No. 2 / No. 3		3.30 lbs/gallon (395 g/L)
	No. 49		2.90 lbs/gallon (347 g/L)
73		2.84 lbs/gallon (240 g/L)	–
	No. 39		3.18 lbs/gallon (381 g/L)
	No. 42		3.22 lbs/gallon (386 g/L)
	No. 56		2.89 lbs/gallon (347 g/L)
90-97		2.79 lbs/gallon (334 g/L)	3.20 lbs/gallon (383 g/L)

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TECHNICAL DATA (CONTINUED)

SERIES	THINNER	UNTHINNED + 44-710	THINNED MAXIMUM + 44-710
91-H_2O		2.77 lbs/gallon (332 g/L)	3.18 lbs/gallon (381 g/L)
94-H_2O		1.06 lbs/gallon (334 g/L)	–
	No. 3		1.82 lbs/gallon (218 g/L)
	No. 49		1.06 lbs/gallon (127 g/L)
700 / 1070		3.05 lbs/gallon (365 g/L)	–
	No. 39		3.20 lbs/gallon (383 g/L)
701 / 1071		2.97 lbs/gallon (356 g/L)	–
	No. 39		3.13 lbs/gallon (375 g/L)
	No. 56		2.99 lbs/gallon (358 g/L)
1072		2.94 lbs/gallon (352 g/L)	–
	No. 39		3.10 lbs/gallon (371 g/L)
	No. 56		2.96 lbs/gallon (355 g/L)
1078		3.50 lbs/gallon (419 g/L)	3.63 lbs/gallon (435 g/L)

PACKAGING

Individual graduated plastic quarts (0.95 L). Also in multiple 4-quart convenience pack.

NET WEIGHT PER GALLON

7.10 ± 0.10 lbs (3.22 ± 0.04 kg)

STORAGE TEMPERATURE

Minimum 20°F (-7°C) Maximum 110°F (43°C)

SHELF LIFE

12 months at recommended storage temperature

FLASH POINT - SETA

102°F (39°C)

HEALTH & SAFETY

Paint products contain chemical ingredients which are considered hazardous. Read container label warning and Safety Data Sheet for important health and safety information prior to the use of this product. Keep out of the reach of children.

APPLICATION

TIME TO MOISTURE RESISTANCE

PRODUCT SERIES NUMBER	HOURS TO MOISTURE RESISTANCE			
	35°F (2°C)	45°F (7°C)	55°F (13°C)	75°F (24°C)
73	24-40	12-16	7-10	4-6
700/1070/1078 (V)†	10	5	21/2	–
701/1071 (V)†	17	10	61/2	–
1072 (V)†	18	15	8	–

†Due to shortened pot life, 44-710 is not recommended for use above 60°F (16°C) in fluoropolymer products.

MIXING

Note: In all mixes, Series 44-710 Accelerator must be added under agitation to avoid lumping, gelling or unpredictable curing. The use of more than the recommended amount of Series 44-710 Accelerator will adversely affect coating performance. Add thinner, if necessary, only after all other components are thoroughly mixed.

Stir thoroughly making sure no pigment remains on the bottom. While maintaining agitation, accurately add four (4) fluid ounces of Series 44-710 Accelerator per gallon yield. For two-component products, Series 44-710 should be added to Part A before mixing with Part B. See product data sheet or label for additional mixing instructions.

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APPLICATION (CONTINUED)

SURFACE TEMPERATURE

Minimum 35°F (2°C) Maximum: See applicable product data sheet.
The surface should be dry and at least 5°F (3°C) above the dew point.

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