



# URETHANE ACCELERATOR 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, 91-H<sub>2</sub>O, and 94-H<sub>2</sub>O when used in potable water applications.

## TECHNICAL DATA

**VOLUME SOLIDS** 5.7 ± 1.0%

**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 35°–75°F (2°–24°C)	Dry-to-Handle					Dry-to-Recoat					Pot Life				
		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
73/1077	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 <sub>2</sub> O	¼	¾	½	½	½	¼	4	4	3	3	2	2	2	2	2	2
94-H <sub>2</sub> O/90G-1K97	½	1½	1	1	1	½	8	7	6	5	4	4	4	4	4	4
530	½	2	1	1	1	1	4	3	2	2	2	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 (V) ††	¼-½	15	14	9	-	-	24	24	10	-	-	2¼	2	2	-	-
1074/U 1075/U	1-2	24	8	5	4	2½	36	16	12	9	5	2	2	2	1½	1

† 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

	Unthinned plus 44-710	Thinned Maximum plus 44-710
1 & 394 No. 2 or 3 Thinner No. 49 Thinner	2.90 lbs/gallon (347 grams/litre)	— 3.30 lbs/gallon (395 grams/litre) 2.90 lbs/gallon (347 grams/litre)
73 No. 39 Thinner No. 42 Thinner No. 56 Thinner	2.84 lbs/gallon (340 grams/litre)	— 3.18 lbs/gallon (381 grams/litre) 3.22 lbs/gallon (386 grams/litre) 2.89 lbs/gallon (347 grams/litre)
90-97 & 90G-1K97	2.79 lbs/gallon (334 grams/litre)	3.20 lbs/gallon (383 grams/litre)
91-H <sub>2</sub> O	2.77 lbs/gallon (332 grams/litre)	3.18 lbs/gallon (381 grams/litre)
94-H <sub>2</sub> O No. 3 Thinner No. 49 Thinner	1.06 lbs/gallon (127 grams/litre)	— 1.82 lbs/gallon (218 grams/litre) 1.06 lbs/gallon (127 grams/litre)
530	3.59 lbs/gallon (430 grams/litre)	—
700 & 1070 No. 39 Thinner	3.05 lbs/gallon (365 grams/litre)	— 3.20 lbs/gallon (383 grams/litre)
701 & 1071 No. 39 Thinner No. 56 Thinner	2.97 lbs/gallon (356 grams/litre)	— 3.13 lbs/gallon (375 grams/litre) 2.99 lbs/gallon (358 grams/litre)

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	Unthinned plus 44-710	Thinned Maximum plus 44-710
1072 No. 39 Thinner No. 56 Thinner	2.94 lbs/gallon (352 grams/litre)	— 3.10 lbs/gallon (371 grams/litre) 2.96 lbs/gallon (355 grams/litre)
1074 & 1074U No. 39 Thinner No. 42 Thinner No. 48 Thinner	2.60 lbs/gallon (312 grams/litre)	— 2.94 lbs/gallon (352 grams/litre) 2.95 lbs/gallon (353 grams/litre) 2.95 lbs/gallon (353 grams/litre)
1075 & 1075U No. 39 Thinner No. 42 Thinner No. 48 Thinner No. 56 Thinner	2.04 lbs/gallon (244 grams/litre)	— 2.59 lbs/gallon (310 grams/litre) 2.65 lbs/gallon (318 grams/litre) 2.72 lbs/gallon (326 grams/litre) 2.08 lbs/gallon (249 grams/litre)
1077 No. 39 Thinner No. 42 Thinner	3.47 lbs/gallon (416 grams/litre)	— 3.83 lbs/gallon (459 grams/litre) 3.86 lbs/gallon (463 grams/litre)
1078	3.50 lbs/gallon (419 grams/litre)	3.63 lbs/gallon (435 grams/litre)

**PACKAGING**  
**NET WEIGHT PER GALLON**  
**STORAGE TEMPERATURE**  
**SHELF LIFE**  
**FLASH POINT - SETA**  
**HEALTH & SAFETY**

Individual graduated plastic quarts (0.95 L). Also in multiple 4-quart convenience pack.  
7.10 ± 0.10 lbs (3.22 ± 0.04 kg)  
Minimum 20°F (-7°C)                      Maximum 110°F (43°C)  
12 months at recommended storage temperature.  
102°F (39°C)  
Paint products contain chemical ingredients which are considered hazardous. Read container label warning and Material 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)
73/1077	24-30	12-16	7-10	4-6
700/1070/1078 (V) †	10	5	2½	-
701/1071 (V) †	17	10	6½	-
1072 (V) †	18	15	8	-
1074/U 1075/U	8-12	6-8	5	3-4

† 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.

**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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