



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 91-H₂O 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	8	5	2½	2	1¾	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	3	2	2	2	1	2	2	2	2	2
91-H ₂ O	¼	¾	½	½	½	¼	3	3	2	2	2	2	2	2	2	2
94-H ₂ O/90G-1K97	½	1½	1	1	1	½	6	4	4	4	2	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	¼-½	8	4	2½	1½	1	10	5	4½	2	1	1	1	1	1	1
701/1071	¼-½	12	10	7	4	2½	16	11	12	5	2½	2¼	2	2	2	1
1072	¼-½	15	14	9	5	2½	24	24	10	5	2½	2¼	2	2	2	1½
1074/U 1075/U	1-2	24	8	5	4	2½	36	16	12	9	5	2	2	2	1½	1

Curing time varies with surface temperature, air movement, humidity and film thickness.

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 ₂ O	2.77 lbs/gallon (332 grams/litre)	3.18 lbs/gallon (381 grams/litre)
94-H ₂ 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)
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)

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	Unthinned plus 44-710	Thinned Maximum plus 44-710
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 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 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	10	5	2½	1
701/1071	17	10	6½	2½
1072	18	15	8	3
1074/U 1075/U	8-12	6-8	5	3-4

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 120°F (49°C)
The surface should be dry and at least 5°F (3°C) above the dew point.

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