

CONACURE® AH-33 (Formerly DPAH-10347)

CONACURE AH-33 is a MbOCA-containing liquid curative intended for use in combination with isocyanate-terminated polyester- and polyether-based prepolymers such as our CONATHANE® RN-1511, RN-3038, or RN-3039.

CONACURE AH-33 is a 100% solids chemically reactive curative that contains no plasticizers or diluents. In comparison to conventional MbOCA, CONACURE AH-33 imparts slightly less hardness, but it improves flex resistance and low temperature properties. The lower hardness can be compensated for with a higher NCO prepolymer.

TYPICAL PRODUCT CHARACTERISTICS

Color	Dark Amber
Appearance	Viscous Liquid
Equivalent Weight	280
Specific Gravity @ 25°C	1.22
Viscosity @ 25°C, cps	16,000
@ 50°C, cps	1,800
@ 80°C, cps	400
% H ₂ O	<0.05
% MbOCA	Approx.40
Storage Stability, Months in unopened container	6

RECOMMENDED PROCESSING PARAMETERS

	CONATHANE RN-1511	CONATHANE RN-3038	CONATHANE RN-3039
Type	TDI/Ether	TDI/Ester	TDI/Ester
NCO%	6.4	3.2	4.3
Prepolymer, pbw	100	100	100
CONACURE AH-33, pbw	40	20.3	27.3
% Theory	95	95	95
Prepolymer Temperature, °C	80	80	80
AH-33 Temperature, °C	25	50	50
Initial Mixed Viscosity @ Mix Temp., cps	2100	6400	4100
Working Life, minutes	16	15	9
Cure, Hours @ 100°C (212°F)	16	16	16
Post Conditioning (77°F, 50% R.H.), Days	7	7	7
Demold Time @ 100°C (212°F), hours	1	1-2 hours	1

TYPICAL CURED PROPERTIES

	CONATHANE RN-1511	CONATHANE RN-3038	CONATHANE RN-3039
Hardness, Shore A	93	77	90
Tensile Strength, psi	5500	3513	4613
100% Modulus, psi	1200	300	750
200% Modulus, psi	1600	350	875
300% Modulus, psi	2400	400	1100
Elongation, %	450	900	750
Tear Strength, pli	460	224	416
Specific Gravity	---	1.27	1.25

HANDLING PRECAUTIONS

CONACURE AH-33 will crystallize on standing. Curative should be heated to 80°C (176°F) under agitation to ensure that it is homogeneous. Containers of CONACURE AH-33 should be flushed with dry nitrogen or CONAP® Dri-Purge each time they are opened to minimize moisture contamination.

CAUTION: FOR INDUSTRIAL USE ONLY! DO NOT TAKE INTERNALLY.

Cytec also supplies a complete series of high strength elastomer systems, high performance primers, mold releases, and color concentrates (See CONAP® DS-1830 Series) for pigmenting urethanes.

Please contact your local Cytec sales engineer or our Customer Service Department to discuss these products or any special requirements you may have.

AVAILABILITY

CONACURE AH-33 is available in 5-gallon and 55-gallon containers. Special 1-gallon evaluation samples are available at a nominal cost.

CAUTION

Responsible handling of Cytec products requires a thorough preview of safety, health, and environmental issues prior to use. Review the Material Safety Data Sheet(s) for the specific Cytec product(s) and container label information before opening containers. Ensure that employee exposure issues are understood, communicated to all workers, and controls are in place to prevent exposures above Permissible Exposure Limits (P.E.L.'s). Review safety and environmental issues to be certain controls are in place to prevent injury to employees, the community, or the environment, and ensure compliance with all applicable Federal, State, and Local laws and regulations. For assistance in this review process please call your Cytec representative or our office noted below.

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