

LINQBOND AD-008MT



Two-component acrylic-based adhesive

- Strong adhesion to PP, PE, TPO, and metal surfaces
- Cures at room temperature
- RoHS compliant and halogen-free

LINQBOND AD-008MT is a two-component acrylic adhesive that cures at room temperature. It offers excellent good adhesion on low surface energy materials like polypropylene, polyethylene, thermoplastic polyolefin (TPO), and metals, without needing surface treatments. Furthermore, its excellent chemical and water resistance makes **LINQBOND AD-008MT** a reliable alternative to mechanical fasteners and welding in different applications.

LINQBOND AD-008MT is formulated without solvents and halogens and fully complies with environmental regulations, such as RoHS 2011/65/EU Directive.

Uncured properties

Property	Part A	Part B	Unit
Appearance	Liquid, Milky	Liquid, Light yellow	–
Viscosity (25 °C, S14, 100 rpm)	4000–6000	10000–11000	cps
Thixotropic Index	4.1±0.5	4.0±0.5	–
Specific Gravity	1.08	1.03–1.12	–

Recommended curing conditions

Property	Value	Unit
Mixing ratio (A:B)	10:1	by weight or volume
Work Life (25 °C, 0.5 g)	7	min
Partially Cure Time ¹	2–4	h
Full Cure Time ¹	18–36	h

¹ Sample was cured at room temperature (25–33 °C)

Instructions for Use

1. Before use, discard the initial portion of the mixed A and B adhesive, then apply the remaining adhesive to the substrate for optimal bonding performance.
2. Make sure that the substrate is clean and free of contaminants =, such as dirt, grease, or mold release agents. A simple solvent wipe is often sufficient.
3. Thoroughly mix the A and B components at a 10:1 volume ratio or weight ratio.
4. Use the mixed adhesive within its designated pot life to maintain optimal performance.
5. For maximum bonding strength, apply the adhesive evenly to both surfaces to be joined.

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Property	Value	Unit
Durometer Hardness	50	Shore D
Shear Strength		
PP+PP/PA+PA/ PA+PP	50/28/40	
Glass +Glass	60	
Al+Al/Steel+Steel/Cu+Cu/SUS304+SUS304	90/125/105/156	
HDPE+HDPE/UHMWPE+UHMWPE/LDPE+LDPE	55/34/22	
PE+PE	45	kgf/cm ²
ABS+ABS/PVC+PVC	110/120	
PC+PC/PMMA+PMMA	105/95	
FRP + FRP	150	
PTFE+PTFE	16	
PS+PS/TPO+TPO	55/50	
Peel strength, HDPE	16	kgf
Weight Loss Ratio (100 °C)	<0.5	%
Thermal Conductivity	0.26	W/m · K
Thermal Resistance	0.006	m ² K/W
Glass Transition Temperature (DSC)	30	°C
Coefficient of Thermal Expansion (CTE), α1	123	ppm/°C
Coefficient of Thermal Expansion (CTE), α2	176	ppm/°C
Degradation Temperature (TGA, 10 °C/min)	240	°C
Surface Resistivity	4.3×10 ¹²	Ω
Volume Resistivity	4.5×10 ¹³	Ω · cm
Dielectric Strength	17	kV/mm
Dielectric Constant/Loss (10 kHz)	4.4/0.02	–
Application Temperature	–40 to 100	°C

² Sample was cured at room temperature (25–33 °C).

Caution for Use

While this product shows low carcinogenicity risk from skin contact, mild redness may occur; wash with soap and water, avoiding solvents. It is moderately toxic if ingested, requiring immediate medical attention. Flush eyes with water for 15 minutes and seek medical help if contact occurs. Consult the MSDS for comprehensive safety details.

Storage and Handling

Store the container in a cool, dark place, away from direct sunlight. Exposure to sunlight may cause the resin and hardener to yellow. Shelf life when stored at room temperature below 34 °C is 365 days (12 months). Keep the container sealed and prevent moisture contamination when not in use. To prevent amine degradation, replace the lid immediately after each use.

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