TECHNICAL DATA SHEET

KOYO BOND KR-134

AQUEOUS POLYMER - ISOCYANATE ADHESIVE

PRODUCT IDENTIFICATION

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General or Generic ID Hazard Classification Aqueous Polymer Emulsion Not Applicable

CHEMICAL / PHYSICAL PROPERTIES

Physical State Typical Viscosity Non-Volatile Content Solvent Solubility in Water Specific Gravity Vapor Density (Air = 1) Liquid 100 ps at 25°C 60% None Soluble in Water 1.26 Heavier than air

FIRE / EXPLOSION HAZARD DATA

Flash Point Explosive Limit Boiling Point Not Applicable Unavailable 100°C

REACTIVITY

Hazardous Polymerization Stability Incompatibility Cannot Occur Unavailable Avoid contact with strong alkalies, strong mineral acid

PROTECTIVE EQUIPMENT VENTILATION

Use with adequate ventilation and wear a mask, goggles and clean rubber gloves to avoid contact with eyes and skin

		EMERGENCY ACTION
<u>lf on skin</u>	:	Thoroughly wash exposed area with soap and water, if irritation or rash develops, get medical attention
If in eyes		Flush with large amount water, lifting upper and lower lids occasionally.
If swallowed		Immediately drink two glasses of water and induce vomiting by placing Finger at back of throat. Get medical attention immediately.



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Koyo Bond KR-134 combined with Crosslinker AJ-1 is specially developed grade for lamination on hard wood such as rubberwood, ramin ,perpok ,meranti, oak, ash, etc. KR-134 has excellent adhesion strength including water, heat, solvent resistance.

1. Characteristic Properties of KR-134

- a. KR-134 requires no heat for curing under ambient temperature
- b. KR-134 requires only a short time for pressing. Required press time varies depending on species of wood, ambient temperature and moisture content of wood, but is generally between 30 and 60 minutes.
- c. KR-134 has neutral range of pH value. Therefore, contamination of wood can be avoided in most cases.
- d. KR-134 is water based adhesive which allows cleaning of equipment and tools simply by water. In addition, it does not contain any dangerous chemicals like phenol, heavy metal and formaldehyde.
- e. Cured KR-134 is tough but somewhat soft and flexible property that gives less damages to blades of sew and other equipment in the processes followed.

2. Physical Properties of KR-134 and Crosslinker AJ-1

	KR – 134	AJ - 1
Appearance	White Fluid	Dark Brown Fluid
Viscosity at 25°C (ps)	100 ± 30	0,5 ±0,2
Solid Content (%)	60 ± 3	-
рН	$7,5 \pm 0,5$	-

3. Sorage and Handling

Store inside warehouse to avoid direct sunlight. Keep in tightly close container in a cool but frost-free place. Storage life is 6 months.

4. Standard Packing

a. Resin

Weight (Kg)	Packing	
20	Dus/Box	
220	Drum	
1100	IBC Tank	

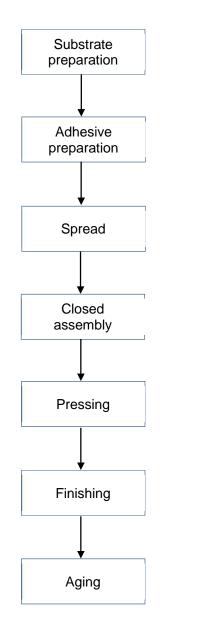
b. Crosslinker					
Weight (Kg)	Packing				
3	Jerigen				
35	Pail				
220	Drum				



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5. Process Flow Chart



Thickness accuracy Moisture content	
KR–134 / AJ-1 = 100	/15
Roll Spreader Spreader rate : 250 -	- 300 g/m²
Less than 5 minutes	at 30°C
10 – 15 kg/cm² for 60)-120 minutes
various conditions.	time should be adjusted counting on Visual observation on the edge out to ensure that some glue is dge
After overnight pre-a	ging in ambient conditions

Curing is completed in 3-5 days



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6. Typical Bonding Conditions for Typical Wood Species

	Board – leaf tress		Needle – leaf tree	
Wood Species	Birch Oak White ash Beech Hard maple	Matoa Rubber Alder Elm	Pine Cedar Spruce Douglas fir Hemlock Agatis	
Press time	30 – 60 minutes		30 – 60 minutes	
Pressure	15 kg/cm ²		7 – 8 kg/cm²	

Note : * For so called "hard-to-Bond wood species" like teak, kalin, sungkai, KR-134 may not have enough adhesion strength. Please refer to the brochure of KR-7800/AJ-1

* Actual press time should be determined by experiments.

* Process condition should be adjusted depending on wood, machine, ambient temperature and humidity, etc.

Future information and sample will be provided upon request. Bonding condition consultation and evaluation test of your product are very welcomed to test in our lab. For any assistance please contact to our company contact number as above

June 10, 2020



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