

KOYO BOND 7800

AQUEOUS POLYMER - ISOCYANATE ADHESIVE

PRODUCT IDENTIFICATION

General or Generic ID : Aqueous Polymer Emulsion
Hazard Classification : Not Applicable

CHEMICAL / PHYSICAL PROPERTIES

Physical State : Liquid
Typical Viscosity : 60 ps at 25°C
Non-Volatile Content : 58%
Solvent : None
Solubility in Water : Soluble in Water
Specific Gravity : 1.28
Vapor Density (Air = 1) : Heavier than air

FIRE / EXPLOSION HAZARD DATA

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

REACTIVITY

Hazardous Polymerization : Cannot Occur
Stability : Unavailable
Incompatibility : Avoid contact with strong alkalis, 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

If on skin : 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.

Koyo Bond KR-7800 combined with Crosslinker AJ-Series is specially developed grade for hard wood lamination.

1. Characteristic Properties of KR-7800

- a. KR-7800 requires no heat for curing if ambient temperature is above freezing point
- b. KR-7800 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 120 minutes.
- c. KR-7800 has neutral range of pH value. Therefore, contamination of wood can be avoided in most cases.
- d. KR-7800 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-7800 is tough but somewhat soft and flexible property that gives less damages to blades of saw and other equipment in the processes followed.
- f. KR-7800 has good viscosity and less foaming tendency.

2. Physical Properties of KR-7800 and Crosslinker AJ-1

	KR – 7800	AJ - 1
Appearance	White Fluid	Dark Brown Fluid
Viscosity at 25°C (ps)	60 ± 20	1,5 ± 0,2
Solid Content (%)	58 ± 3	-
pH	7,5 ± 1,0	-

AJ-1 :For general hard wood species

3. Storage 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

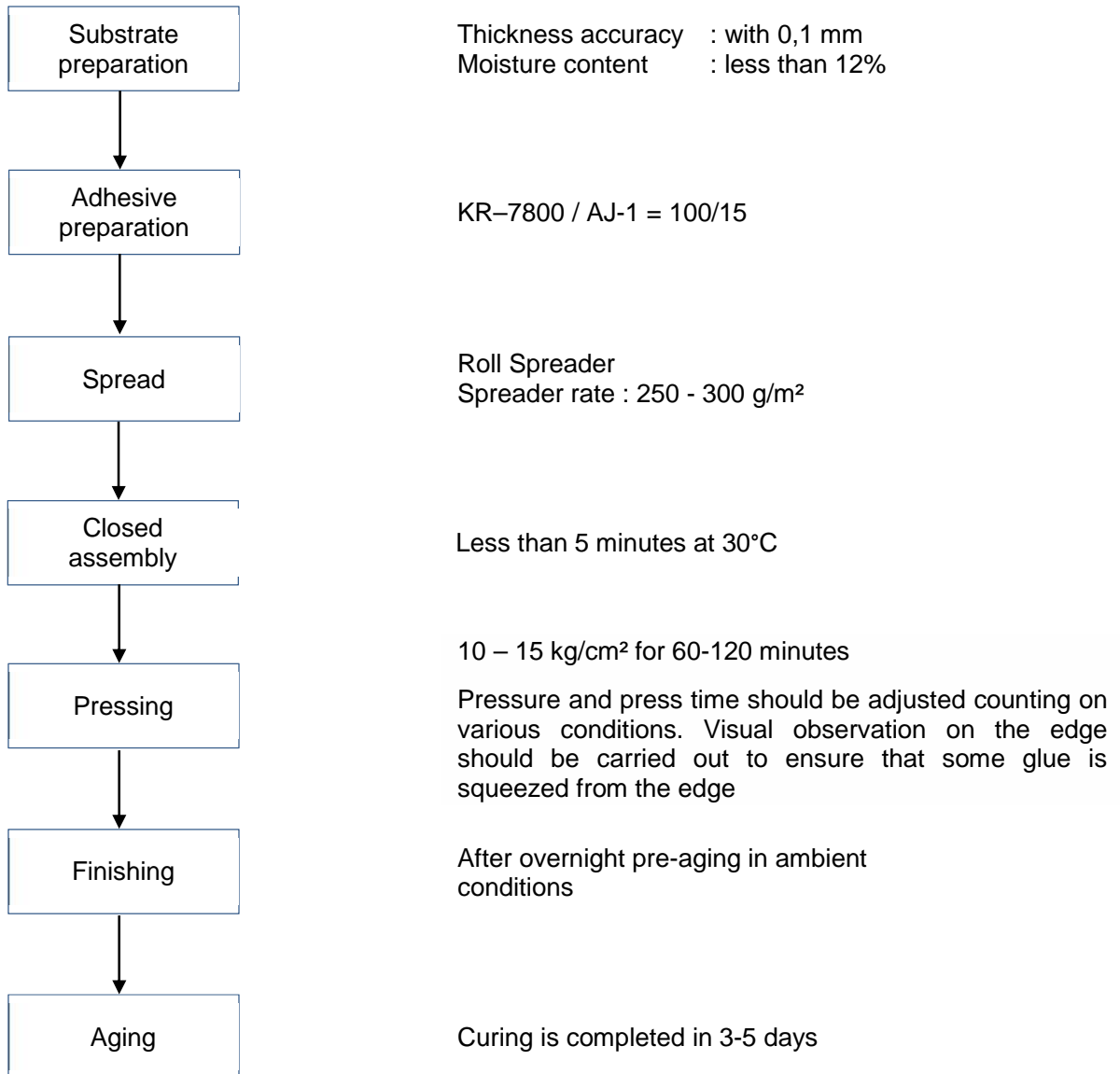
a. Resin

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

b. Crosslinker

Weight (Kg)	Packing
3	Jerigen
35	Pail
220	Drum

5. Process Flow Chart



6. Typical Bonding Conditions for Typical Wood Species

	Board – leaf tress		Needle – leaf tree
Wood Species	Teak Rosewood Ebony	Birch Oak White ash Beech Hard maple Matoa Elm Rubber Sunkai Alder	Pine Cedar Spruce Douglas fir Hemlock
Adhesive	KR-7800/AJ-1	KR-7800/AJ-1 or KR-134/AJ-1	KR-134/AJ-1*)
Mixing Ratio	100/15	100/15	100/15
Pressure	15 kg/cm ²	15 kg/cm ²	7 kg/cm ²
Press time	120 minutes	30 – 60 minutes	20 minutes

Note : * KR-134 is a sister grade of KR-7800
Please refer to other brochures for detail

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