ASTAPLY

LIQUID PLYWOOD RESINS

ASTACHEM®
Specialty Chemical

RESINS

The ASTAPLY Line offers thermosetting liquid resins, specially formulated for the manufacturing of interior grade plywood. In the cured state, the resin is a cross-linked, insoluble, infusible material.

Urea Formaldehyde
Melamine Urea Formaldehyde

- Manufacture of Interior Grade Plywood
- Manufacture of Bentwood
- Formaldehyde Emissions achievable : E2, E1, CARB-II, E0 (F****), JAS Type I

Phenol Formaldehyde

- Manufacture of Weather and Boil Proof (WBP) plywood
- Manufacture of Marine Plywood
- Manufacture of Block boards
- Manufacture of Structural Wood Panels
- Manufacture of wood panel products for exterior use in high humidity and moisture

ASTAPLY CR500

UREA FORMALDEHYDE LIQUID RESIN

PRODUCT PROPERTIES @ TIME OF MANUFACTURING

Appearance	Milky white liquid, free from lumps and visible impurities
Viscosity @ 30ºC (2/60)	125 - 200 cps
pH @ 30ºC	7.8 - 8.6
Solid Content (105ºC at 3 hours, MeOH)	49 - 53%
Specific Gravity @ 30ºC	1.202 - 1.212
Free-formaldehyde (After 17 hours)	1.00 – 1.70%
Gel Time @ 32ºC (150g resin + 0.5g K6)	22 – 41 min

BONDING QUALITY

British Standard	BS 1455, 1972 - Moisture Resistant Grade (Knife Test)
	BS 6566, Part 8, 1985 – Moisture Resistant Grade (Shear Test)
Japanese Agricultural Standard	JAS Type II
United States Commercial Standard	CS-35, Type II

ASTACHEM®
Specialty Chemical

ASTAPLY HL4645
PHENOL FORMALDEHYDE LIQUID RESIN

APPLICATIONS

- Manufacturing of Marine Grade Plywood
- Manufacturing of Shuttering Plywood
- Manufacturing of floorboards

ADVANTAGES

- Excellent Pre-pressing and Pre-bonding Characteristics when used with filler PXE-6
- No resin bleed-through (veneer thickness > 0.9mm)
- Bond formed is extremely strong, insoluble in boiling water or common solvents
- Slow dry out and longer open assembly time (up to 1 hour)
- More resistant to high temperature than the wood itself
- Meets international bonding standards

PRODUCT PROPERTIES

Appearance	Clear, red liquid
Viscosity @ 30°C	45 - 60 cps
BWG @ 100°C	48 - 65 minutes
Specific Gravity @ 30°C	1.200 - 1.218
Solid Content @ 105°C	44 - 46%
Alkalinity	8.30 - 8.60%