

Enhance Your Wood Quality with Our Solution

PRODUCTS

- Formaldehyde Scavenger
- Hardener
- Industrial Filler
- Wood Putty
- Veneer Tape
- Log Sealant

FORMALDEHYDE SCAVENGER



FC-100

- Over 90% reduction of formaldehyde emission
- Pre-treatment in glue mixture
- Compatible with a wide range of glue which are UF, MUF and LFE glue

FC-150

- Upgrade F☆☆☆ → F☆☆☆☆
- Superior wetting property and good in penetration into the wood surface
- Post-treatment on the panel after hot press
- Pre-treatment on the veneer

FC-300 PRO

- Upgrade F☆☆ → F☆☆☆☆
- Secure in formaldehyde control, especially for floor-based panel and thin panel.
- Superior wetting property and good in penetration into the wood surface
- Post-treatment on the panel after hot press
- Pre-treatment on the veneer









Your Wood Solution To Meet The International Highest Formaldehyde Control Standard

JAS F☆☆☆☆

AS/NZS Super EO (<0.3mg/L)

US TSCA Title VI / CARB
ATCM Phase II
(<0.05ppm, approx. 0.376mg/L)

Taiwan CNS F1 (0.3mg/L)

FORMALDEHYDE SCAVENGER



Catcher Products	Products Descriptions	Application	Main Benefits
FC-100	Formulated with stable and consistent quality to remove formaldehyde in glue effectively.	 Post added in glue Spray or roller coating on the products after hot press Dosage: max 18% of resin weight 	 Stable result even after a long period of time Balance between cost and performance
FC-150	 Effective accelerator to remove formaldehyde Superior in wetting property and good in penetration into the treated surface 	 Spray or roller coating on the product after hot press Spray/coating Volume: 3-6g/ft2 for both face and back Spray on the green veneer before the dryer 	 Excellent wetting properties to ensure deep penetration and coating eveness
FC-300 PRO	 Excellent accelerator to remove formaldehyde Superior in wetting property and good in penetration into the treated surface 	 Spray or roller coating on the product after hot press Spray/coating Volume: 3-6g/ft2 for both face and back 	Excellent wetting properties to ensure deep penetration and coating evenness

FORMALDEHYDE SCAVENGER



Water vs. FC-300PRO – Penetration into wood



HARDENER



Hardener H-1

- ➤ Used as cross linker in Urea-Formaldehyde (UF) and Melamine -Urea-Formaldehyde (MUF) resin
- > Stable and consistency in pot life increment
- > Improve in pre-bonding and mechanical properties
- ➤ Dosage recommended: 0.5-1.5% of resin
- * Dosage may vary depending on the glue formulation



INDUSTRIAL FILLER



Industrial Flour F-1

- Non wheat based Industrial Flour
- More than 40% cost saving as compared to conventional wheat-based industrial flour

PF Glue (WBP)

- 50-100% replacement of conventional wheat-based industrial flour in Phenol-Formaldehyde (PF) adhesive
- Pass JAS TS (WBP) Bonding Test

UF, MUF Glue

- 25-50% replacement of conventional wheat-based industrial flour in Urea Formaldehyde (UF) and Melamine Urea Formaldehyde (MUF) adhesive
- Pass JAS T2 and T1 Bonding Test, no effect on Formaldehyde Emission reading
- As a natural colorant in UF and MUF glue, improve process control at the glue spreader section for easy checking on the unglued area and uneven gluing.

Material Properties

- Eco-friendly and non-toxic
- 10-15% protein content





INDUSTRIAL FILLER



Industrial Flour F-2

- Thanks to the unique high-temperature resistance properties of the powder, which will improve the glue heat resistance in a high-temperature hot press and enhance the mechanical properties of the glued panel, especially using Phenol-Formaldehyde (PF) adhesive.
- Used in various form of applications for both technical and environmental benefits varying from additive, as well as a composite matrix
- Recommended and commonly used as a compound filler for thermoset moulding powders like bakelite, synthetic resin and glue
- Raw material for mosquito coil, incense stick and briquette



Compound filler in PF glue



Composite matrix in cement



Raw Material in briquette



Raw Material in mosquito coil

INDUSTRIAL FILLER



Products	Application	Specification	Dosage
Industrial Flour (F-1)	 PF Glue ➤ Recommended for PF glue with 50-100% replacement of flour UF, MUF Glue ➤ Recommended for UF and MUF glue with 25-50% replacement of flour 	 Powder with particle 60 mesh and above Viscosity (3:1): 50-60cps (Brookfield: Spindle 4, 60rpm) pH: 4.0-7.0 Moisture %: Max 13 	Recommended Dosage: 25-100% replacement for flour * Dosage may vary depending on the glue formulation
Industrial Flour (F-2)	 Improve thermal resistance of glue Recommended for phenolic glue 	 Powder with particle 60 mesh and above Viscosity (2:1): 30-40cps (Brookfield: Spindle 4, 60 rpm) pH: 4.0-7.0 Moisture %: Max 13 	Recommended Dosage: 50-100% replacement for flour * Dosage may vary depending on the glue formulation

WOOD PUTTY



Properties	WP-6	WP-7	WP-8
Stain Resistance	✓		
Water Resistance	√	√	
Anti-shrinkage	✓	✓	✓
Crack Resistance	✓	✓	✓

Y7 Color: Natural

Y3 Color: OAK

R4

WP-6

Prevent Putty Stain penetrate through the surface of decorative veneer

Market Product



Severe Putty Stain observed on the surface of decorative veneer

WP-6, WP-7



Water Resistant of after T1, T2 and TS water soaking

Putty loosed after T1, T2 and TS water soaking

Market Product

WP-6, WP-7 and WP-8



Anti shrink and anti crack

Market Product



Shrink and crack observed

WOOD PUTTY



Products	Product Description	Application	Main Benefits
WP-6	Formulated with specialty materials to meet requirements for the wood industry which possesses excellent performance such as stain- resistance, water-resistance, adhesion and etc.	 Strongly recommend for plywood, floor-based panel, furniture panel, block board and etc. Stain resistance for plywood/wood panel used in decorative veneer lamination (especially Oak Veneer) 	 Chemical stain resistant Excellent water resistant Excellent anti shrinkage
WP-7	Formulated to meet general use for wood industry which possess excellent performance such as water resistant, shrinkage, adhesion, hardness and etc.	 Recommend for general use in the wood industry, furniture industry, household and etc. Special for the wood panel which require water resistance performance 	Excellent in water resistantExcellent in anti shrinkage
WP-8	Formulated to meet economic and general use for wood industry which possess good performance such as shrinkage, adhesion, hardness and etc.	Recommend for general use in wood industry, furniture industry, household and etc.	Anti shrinkageCost effective

Our Technical Team Provide Product Development And Solution For All Your Wood Putty Related Problems

VENEER TAPE

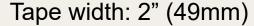


Tape Edge Composer (TEC) Gummed Tape

- ➤ Increase productivity and production recovery compared to conventional hot melt composer
- > To join or repair green veneer
- Special heat-activated paper tape to provide a strong join of green veneer before dryer
- > Excellent water resistant
- ➤ Stay strong even after the drying process therefore can prevent overlap defects on veneer









LOG SEALANT



Log Sealant LS-1

- ➤ Non-toxic Elastomeric water-based sealer that protects freshly cut logs and lumber from damaging end splits
- Reduce the water loss from logs to keep the log freshness
- > Can be applied to all species of hardwood or softwood
- Prevent blue stain and sap stain caused by damaging fungi
- ➤ Coverage: 1 kg of paint are able to cover 1-2 m² of surface



Without Log Sealant



It can be applied on the fresh cut saw timber to prevent further split



QUALITY ASSURANCE & TECHNICAL SUPPORT



Our Quality Assurance,
Your
Sustainable Value Solutions

QUALITY ASSURANCE



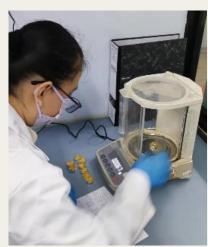
- > We believe that quality product is our strategy for success where every batch of raw materials will go through strict quality control checking to ensure our products can meet the quality assurance and customer satisfaction
- > Every shipment of our product is accompanied by a COA under our QA department to assure the customers about the proper and consistent quality of the product.







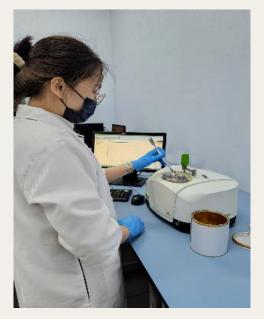




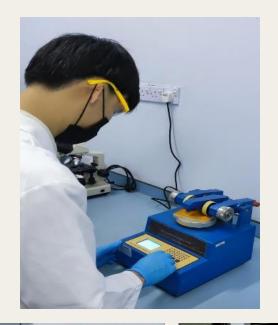
RESEARCH AND TECHNICAL SUPPORT



Research and product development are our business backbone. Researchers and professionals are doing research and product development every day in our laboratories to ensure that we can provide more and more solutions to our customers and society.

















Your Solutions Partner









