



**WOOD**

**ADHESIVES**

**Product Brochure**



Texochem Industries

# Company Profile

Texochem Industries was established in the year 1992 with the objective of manufacturing a wide range of performance and specialty polymers for applications in textile, adhesives, leather, paints, and construction. We consistently strive to exceed expectations in terms of delivery, service, technical support, and customer awareness.

Our company's state-of-the-art manufacturing facility is established at Navi Mumbai, along with a fully equipped laboratory. These resources coupled with our team of highly experienced technocrats enable us to develop innovative products to solve complex problems. We aim to build long term partnerships with our customer by constantly adding value to their businesses.

We are sensitive to quality and environmental issues. Many of our products are formulated to meet the most demanding ecological requirements of today and tomorrow. In time with the global trend of replacing solvent-based polymer systems with ecofriendly water-based systems, we, at Texochem are gearing up to meet this challenge. Our research and development activities are constantly being upgraded to meet these requirements.

**Our products are classified into following categories:**

- 1. Textile Chemicals**
- 2. Leather Chemicals**
- 3. Printing & Packaging Adhesives**
- 4. Wood Adhesives**
- 5. Paint & Construction Chemicals**
- 6. Multipurpose Emulsions & Additives**
- 7. Specialty Products**



# Product Overview

There are a wide variety of wood and composite materials that are used to deliver specific functional properties and 'feel' to the end consumer. However, these materials require bonding agents which are versatile and can be used for multiple applications. To provide our customers with the best possible solutions, we have developed a range of products to cater to their requirements. Our shop floor is always buzzing with innovation, and we strive to consistently add newer products to our portfolio. Currently our major offerings are as follows:

Product Name	Grade/Application	Key Advantages
Wood Plus Lotus	D3 grade	High water resistance
Wood Plus Premium	D2 grade	Work-horse of the industry
Wood Plus Classic	D2 grade	Economical grade
Texobond 1050	Hot Press – Cold Press	Free from plasticizer & other migratory chemicals
Texobond MP	Membrane Press	High coverage for spray application
Texobond MP-Eco	Membrane Press	Compatible with isocyanate hardeners
Texobond 1076	Acrylic sheet bonding	Strong bonding for low energy surfaces
Wood Plus PVC	PVC lamination	High tensile & cohesive strength
Wood Plus Ultima	D4 grade	Excellent water & heat resistance
Wood Plus Excel	D4 grade	Foam free adhesive

# Wood Plus™ – PVAc glue

Wood Plus™ is our registered brand name for the polyvinyl acetate (PVAc) range of wood adhesives. PVAc wood adhesives are often divided into D1, D2, D3 and D4 classes.

The D grading stands for Durability. These gradings are part of the European Standard BS EN 204, governing the classification of wood adhesives for non-structural applications.

Our PVAc based adhesives have balanced rheological properties to improve its application feel, coverage, and provide stability.

Durability Grade	Grade Description	Our Product
D1	Moisture content of wood < 15%	--
D2	Moisture content of wood < 18%	<b>Wood Plus Classic</b> <b>Wood Plus Premium</b>
D3	Short term exposure to running water, and high humidity	<b>Wood Plus Lotus</b>
D4	Long term exposure to running water	<b>Wood Plus Ultima</b> <b>Wood Plus Excel</b>



# Membrane Press Adhesive

PVAc based wood adhesives do not work well for membrane press applications, where PVC sheets are heat laminated to wood/MDFs. There are three primary reasons for their failure:

1. Vinyl acetate chemistry is not suitable for chlorinated compounds (like PVC).
2. Vinyl acetate chemistry is not heat stable in most cases.
3. They are highly viscous and cannot be sprayed, as required for this application.

Solvent based Polyurethane (PU) adhesives are most widely used, but the shift to water-based systems calls for new generation adhesives, which can meet the requirements for this application.

We offer two different products for this application. They have highly selective functional groups which help in bonding with PVC.

**Texobond MP** can be used as is, without any further mixing required.

**Texobond MP-Eco** is typically mixed with isocyanate hardener (3-5% w/w) before application.

Texobond MP	
Appearance	Milky white emulsion
% solids	46 ± 2%
pH	5.0 – 7.0
Viscosity	100 – 400 cPs
Sealing condition	100C – 120C for 90 sec

Texobond MP-Eco	
Appearance	Milky white emulsion
% solids	40 ± 2%
pH	5.0 – 7.0
Viscosity	100 – 400 cPs
Sealing condition	100C – 120C for 90 sec



# Hot Press – Cold Press

**Texobond 1050** has been specially developed to work for both “hot press” and “cold press” applications. The adhesive contains heat resistant components which maintain the bond strength during heating process and allows for excellent fixation. It is highly recommended for bonding wood, laminates, plywood, veneer, block board, MDF and other types of wood.

## Sealing conditions:

### For hot press application:

Maintain temperature of 80C and press for 10min

### For cold press application:

Maintain the pressure for about 4 hours.

### Typical Properties

Appearance	Milky white emulsion
% solids	40 ± 1%
pH	4.0 – 6.0
Viscosity	200 – 300 Poise
Coverage	130 ft <sup>2</sup> /Kg

### Advantages

- Contains no migratory chemicals
- Excellent adhesion to all types of woods
- Good levelling on wood surface
- Eco-friendly and nontoxic
- Can be diluted with water



# PVC and Acrylic Sheets

**Wood Plus PVC** is a synthetic hybrid emulsion-based wood adhesive, developed for bonding PVC sheets to wood, particle board and MDF board. The adhesive is highly resistant to plasticizers used in preparing PVC sheets, which helps in maintaining long term strength.

Wood Plus PVC	
Appearance	White Paste
% solids	55 ± 2%
pH	4.0 – 7.0
Viscosity	500 – 1000 Poise
Drying time	Approx. 30 min

**Texobond 1076** is a synthetic hybrid emulsion-based wood adhesive, developed for “difficult to bond to” substrates, such as acrylic sheets. The surface tension of the adhesive is low enough to completely wet out the substrate and adherends to ensure a strong and complete bond.

Texobond 1076	
Appearance	White emulsion
% solids	48 ± 2%
pH	4.0 – 7.0
Viscosity	300 – 500 Poise
Shelf life	24 months





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