



**pearl**

Polyurethane Systems



# ***PearlBond***

Durable and strong bond,  
every time and in any place.

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Versatile PU-based adhesive solutions customised to  
meet your specific needs

Expert ongoing technical support

Backed by agile, experienced R&D Team

The Future Is Polyurethane



# Strong and long-lasting adhesive

**Compatible with recycled granules or additives**

**Expert technical support for when you need help**

When compared to rubber and thermoplastic materials, polyurethane-based adhesives can provide a more cost-effective solution suitable for moulding and processing equipment when formulated accordingly. This is exactly where PearlBond adhesives can help you.

With a broad range of effective mechanical properties, PearlBond adhesive systems also provide a seemingly limitless number of application possibilities. Pearl Polyurethane can develop an appropriate formulation for your application to meet your business needs

## Features

- Superior wear resistance
- Good mechanical properties
- Excellent abrasion resistance
- Good tear strength
- Excellent long-term elasticity
- Excellent resiliency
- Good dynamic properties (minimum heat build-up)

# PearlBond



**Binders for running tracks, children's playground mats, garden tiles, and many other applications or outdoor use cases**



**Panel lamination adhesives providing comprehensive lamination**



**Binder for Rebonded Foam**



**Stone Binders**



**Moisture-Curing Binders for Marine Applications**



**Wood binders for a broad range of structural uses**



# Binders

**Compatible with a wide range of additives, including recycled granules**

From running tracks, playground mats, to garden tiles, Rebonded Foam, and even Marine applications, PearlBond binder is suitable for most applications and outdoor use cases in any climatic conditions.

As the preferred alternative to TDI based binders, PearlBond is an MDI based binder - part of a wider portfolio of product options - that can easily be customised for many recycling applications.

Whether it is rubber, cork, stone, flexible foam, PU, or rebonded granules, these can be combined with the PearlBond PU-based binder to create whole new range of value-added products out of previously discarded resources.

The range of product options is seemingly limitless - products that dampen noise and vibration or products that offer improved comfort, slip resistance, or shock absorption, depending on their intended use.

With properties ranging from soft to semi rigid to hard, PearlBond binder offers durable solutions for a variety of applications, from running tracks to garden tiles and playground mats.







## Panel lamination adhesives

### Providing strong and durable lamination

- Full range of one- and two-component polyurethane adhesives adapted to individual customer's needs
- Suitable for use on continuous, discontinuous and double-belt panel laminators
- A2 filled fire rated systems for dispensing and viper applications available
- Solution enables production efficiency and output at differing speeds
- Enables bonding of aluminium, steel or full-stressed skin materials to polyurethane or polystyrene foam, mineral wool, and cores containing other insulation materials.
- Excellent sealing properties and robust
- Enables laminated panels to absorb structural weight stress while providing superior thermal adaptability
- Good flexibility to cope with expansion due to temperature changes
- Possibility for longer panels with less panel joints providing more cost-effective and rapid production

## Wood binders

### For a broad range of structural and everyday uses

- Ideal for wood assemblies requiring a strong but flexible bond
- Suitable for use with wood furniture, panelling, doors, windows, stairs, and interior structures, as well as use in the marine sector.
- Superior aging properties
- Deep wetting and adaptable curing speeds
- Benefit of large bonding interface due to uniform penetration properties



Properties	Remarks
Rubber Binder	Standard rubber binder for moulded cylinders. Moulded cylinders are subsequently peeled off into endless mats, which are finally cut to a certain length or shape.
Rubber Binder	Standard rubber binder for moulded parts (rubber tiles or cobblestones).
Rubber Binder	Standard rubber binder for outdoor in-situ applications, for example small sport surfaces or playgrounds. Very flexible and soft binder with low reactivity, for example long pot life. It is also a standard prepolymer for Spray Elastomers.
Foam Binder	Rebounded foam binder for hot steam curing process. Hot steam curing process: Prepolymer, water and foam flakes are mixed and subsequently cured in a (heated) mould with hot steam. Hot steam curing process is more expensive compared to moisture curing process.
Foam Binder	Rebounded foam binder for moisture curing process. Moisture curing process: Prepolymer, water and foam flakes are mixed and subsequently cured in a (heated) mould. Moisture curing process is less expensive compared to hot steam curing process.
Stone/Mineral/Ceramics/Binder	Permeable stone binder for pedestrian and bicycles ways, decorative landscaping.
Rubber Binder/Aliphatic	UV stabilized version of self-levelling rubber binder system for EPDM granules.
Sandwich Adhesive (Thin Bed Foam)	Composite panel adhesive with adjustable reactivity range. Continuous metal panel. Rockwool panel, EPS panels.
Construction Adhesive	DIY construction adhesive, moisture cured.
Marine adhesive	DIY construction adhesive, 1K Marine adhesive
Construction adhesive	2K EPS and rockwool adhesive
1K primer	1K concrete surface primer
1K primer	Steel surface primer

## Product Name

# PearlBond

## Other product information



Produced according to ISO 9001 and ISO 14001 standards  
 Pearl Polyurethane Systems is an ISCC certified company





# About us

Pearl Polyurethane Systems is an award-winning polyurethane solutions innovator and proudly the leading system house in the Middle East and Africa, servicing a wide range of clients globally.

Pearl Polyurethane Systems provides sustainable and durable polyurethane-based solutions for a broad range of clients both regionally and globally from our headquarters in Dubai, United Arab Emirates.



**Your award-winning polyurethane solutions partner**

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