Watts
Your
Industry

Watts
Urethane
Products

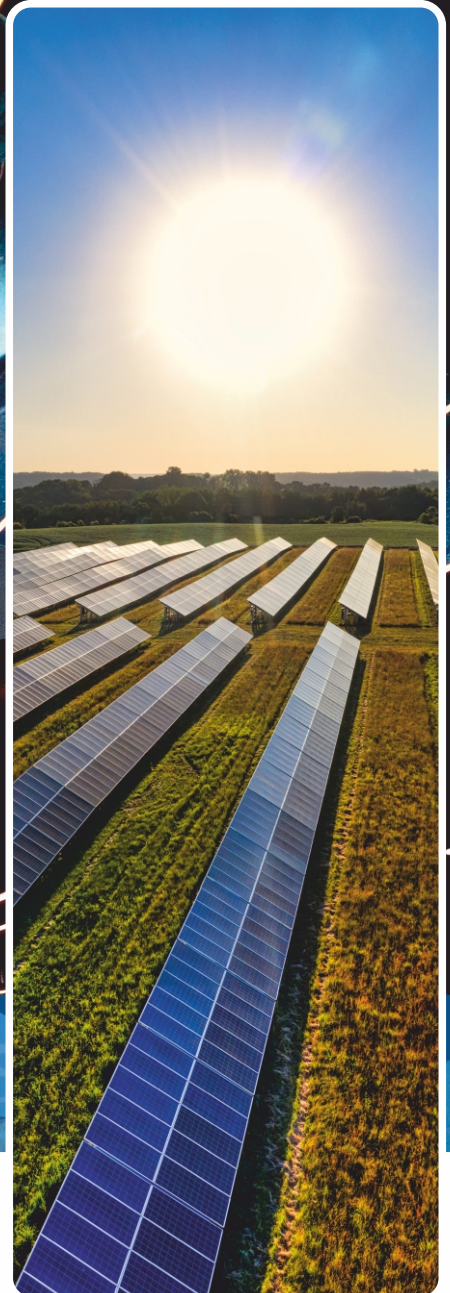**Watts Your Industry**

At Watts Urethane we love a challenge and enjoy finding new ways castable Polyurethane can be used to solve our customers' problems. Over the last 45 years we've produced polyurethane products for every conceivable industry and in countless applications. The knowledge and experience we have gained over the years, across a wide range of projects, has provided our design team with unique skills. This experience enables us to navigate current and future industry expectations.

What is a Castable Solid Polyurethane?

Polyurethanes come in various forms, the most common of which is Polyurethane Foams which are used for things like bedding, seats, cushions, etc. At Watts Urethane, we produce solid Thermoset polyurethanes which come in a wide range of hardnesses from 35 Shore A (as soft as an elastic band) to 75 shore D (as hard as a golf ball). These castable polyurethanes are generally poured into gravity fed moulds. This method along with the curing process provides strong chemical bonds making for extremely tough, long-lasting products. In addition, we can cast solid polyurethanes into sheet form from 1mm to 15mm thickness.

Benefits of Solid Castable Polyurethane (Thermoset)

Castable Polyurethanes have a diverse set of properties making it the leading choice for engineers looking for long lasting materials for their high load, high stress environments. Polyurethane routinely outperforms plastic, rubber, and steel in its overall ability to resist harsh environmental factors such as abrasion, heat, solvents, oil, acid and is also widely used to assist in noise reduction.

The key benefits of choosing Polyurethane over other materials are as follows:

- There is a low cost for tooling in comparison to injection moulding.
- The end product is tougher due to the development of chemical bonds through processing.
- There are low-cost options for prototyping and trial quantities.
- It's chemical and abrasion resistant.
- It's corrosion proof.
- It's available in a wide range of hardnesses
- It has elastomeric memory
- It absorbs noise
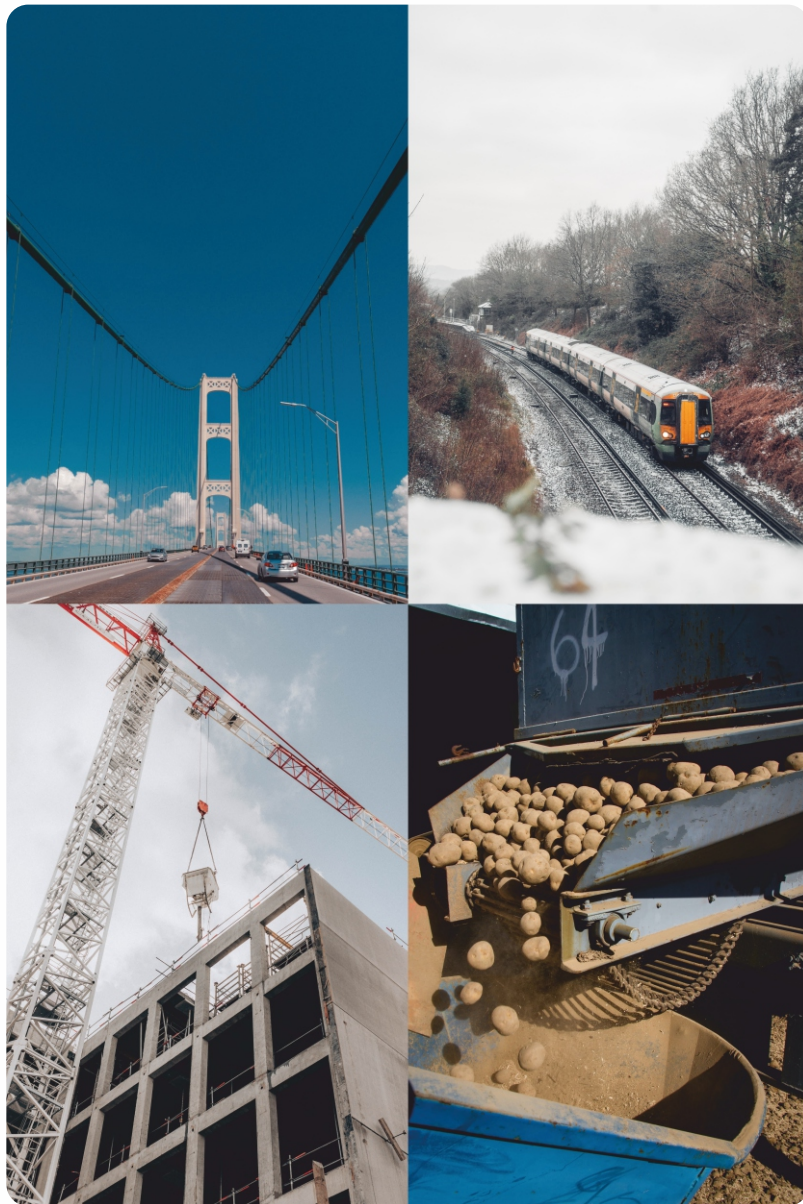- It's cheaper to manufacture as there is no post welding/processing

Typical industries and applications

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We supply polyurethane products and solutions to a wide range of industries and for any number of applications.

- **Construction** – concrete moulds, pump wear parts, scrapers, track pads
- **Quarrying & Mining** – Belt scrapers, screen media, pump linings, wear parts, hydro-cyclones.
- **Rail** – track pads, isolation blocks, chocks, bespoke solutions.
- **Road** – bridge plates, isolator blocks, street furniture.
- **Agriculture** – rollers, scrapers, machinery wear parts, wheel re-furbishing.
- **Defence** – bespoke solutions.
- **Industrial wheel & tyre** – wheel refurbishment & covering for all industries.
- **Materials handling** – chute linings, pump lining, non-crush wheels, wear parts.
- **Automotive** – dunnage, lift pads, handling protection.
- **Metal processing** – rollers, saddles, wear parts for finishing machinery, press tool components, component protection masks.
- **Engineering** – we have a wide range of bespoke solutions across all Industries.

Watts
Urethane
Products

We have vast experience, knowledge and expertise. We also have truly premium products developed, manufactured and sold by a dedicated, professional and friendly team that would be delighted to hear from you!

Watts Squeegees

Watts Street Furniture

Watts Your Industry

Watts Wheels & Tyres

Watts Technical Solutions

How we can help you

Whatever your project or requirement, we can come up with a solution to suit. Please contact our sales team to find out more.

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✉ sales@wattspu.co.uk

📞 +44(0) 1594 847150

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