

# WELCOME TO GLASSBOND (NW) LTD



# Company Overview



**Glassbond**

Organic lamp capping cements for the lighting industry



**Glassbond**

C-Bond Cyanoacrylate, U-Bond UV-curable and αbic Engineering adhesives for multiple applications



**Moulding  
Compounds**

Thermoset moulding compounds for the lawn bowl market



**Glassbond**  
**SAUERISEN**

High temperature ceramic adhesives manufactured under licence from Sauereisen USA

# Company Timeline

- 1978 Company founded to manufacture Lamp Capping Cements
- 1982 Company moves premises to existing location – Jackson Street, St Helens
- 1982 Company installs speciality Moulding Compounds Facility
- 1987 Sales of Lamp Capping Cement peak in the UK
- 1992 Glassbond achieves quality accreditation to BS5750
- 1997 An agreement is reached with Sauereisen Inc USA for Glassbond (NW) Ltd. to manufacture and distribute inorganic high temperature cement in Europe
- 2001 Company is awarded the Queens award for Enterprise in recognition of its outstanding record in international sales
- 2002 Quality accreditation to ISO 9001:2000
- 2004 Environmental accreditation to ISO 14001:1996
- 2017 Accreditation obtained to ISO 9001:2015 and ISO 14001:2015
- 2018 Glassbond celebrates 40 years trading
- 2019 Glassbond launch new LED instant adhesives and UV curables
- 2023 Glassbond launch C-Bond, U-Bond and abic adhesives supplemented with primers, activators and debonders

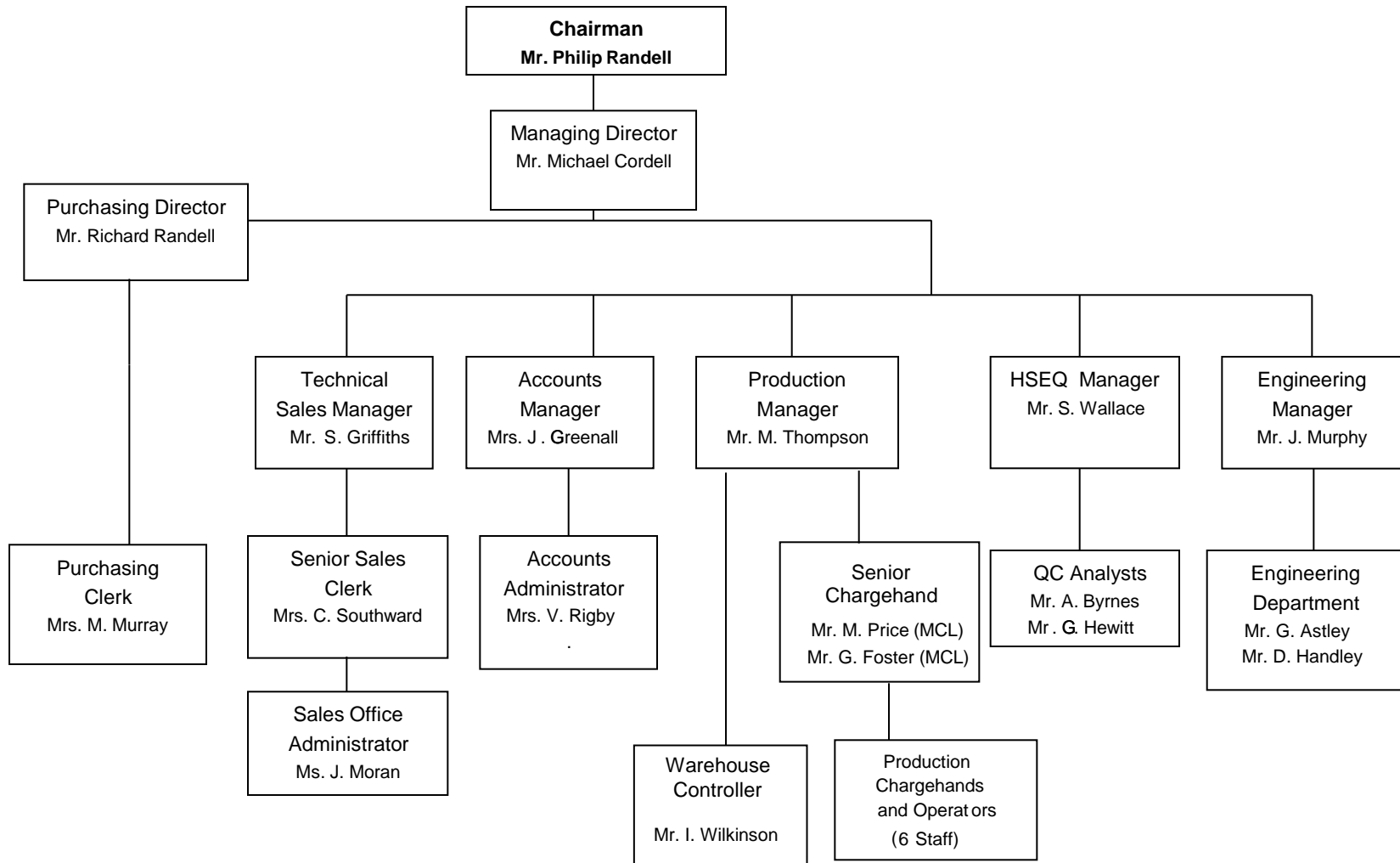
# The Company Today

- 26 employees
  - 12 office-based
  - 12 factory-based
  - 2 lab-based
- Plant capacities:
  - Lamp Capping Cements 3000MT/annum
  - Moulding Compounds 700MT/annum
  - High Temperature Cements 300MT/annum
- Sales Markets:
  - 75 – 80% is exported to Europe, Asia, USA and Australia
  - 20 – 25% is UK-based
- Premises:
  - 9 x 2500 Sq Ft industrial units, housing manufacturing, office, warehousing and laboratory facilities





# Company Structure



# Lamp Capping Cements

- Organic adhesives based on phenolic and silicone resins for use in the manufacture of electric light bulbs and lamps
- They incorporate natural and synthetic binders, fillers and bonding agents
- Bespoke grades are possible for individual customer requirements such as lamp type, local environment and operating conditions
- Products are blended in one of two large capacity ribbon blade blending machines and packed to customer requirements in a dedicated manufacturing facility
- New range of adhesives for the LED market have been commercialised – aimed for low working temperature lamps with sensitive electronics



# Cyanoacrylate, UV Curable and Anaerobic adhesives

- We have a full range of grades available to suit every application type - from fast bonding instant adhesives (C-Bond) to high performance UV curable (U-Bond) adhesives and Engineering adhesives ( $\alpha$ bic). Developed to suit a range of substrates and available in a variety of packaging types and sizes to suit your own particular requirements.
- Glassbond (C-Bond) Instant Adhesives (cyanoacrylates) have been formulated for general purpose applications such as bonding wood, metal, glass, plastics (including PVCu and polycarbonate) and other substrates across a whole range of professional and domestic applications. We are sure to have the right product for your needs and your budget too. To supplement the C-Bond product range, we can also supply primers, surface activators and debonders.
- Our UV curable products have been formulated for high performance applications such as adhesion, coating, potting and sealing. Fast cure, no odour, unique thermal stability/shock and precise control are all at your fingertips.
- Our  $\alpha$ bic adhesives cover a range of engineering applications such as threadlockers, gasket makers, retainers and pipe sealants. Within each application type are a complete range of products suited to your application, where cure time and bond strength are key considerations.



# C-Bond, U-Bond and αbic products



# Moulding Compounds

- Thermoset moulding materials based either on phenolic or melamine resin
- Primarily tailored for the lawn bowl market but they can be tailored to other applications
- Formulations are based on resin binders incorporating a range of reinforcing and enhancing fillers, pigments and curing agents
- Products are manufactured on one of two dedicated rolling mills
- Large quantity of colours available either as individual 'solid' colours or combinations of colours to form bespoke 'speckle blends'
- Dedicated blending facility on site to produce a vast array of colour combinations
- New fluorescent range of colours jointly developed and commercialised by the technical and production teams in 2019



- A blend of coarse resin, flours, lubricants, pigments and fillers is screw-fed onto a hot mill at around 110°C
- The resin mixture is partially crosslinked on the mill before being ground by two separate machines
- The powdered product is packaged and sold to customers

# Choose a colour



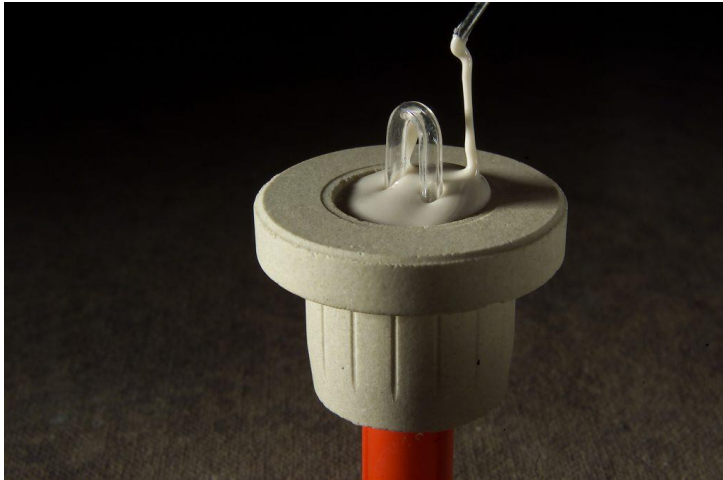
# High Temperature Ceramic Adhesives

- Manufactured under licence from Sauereisen Inc. USA
- Can be used for bonding ceramic, metal and glass in the electrical, mechanical, metallurgical markets
- Some are capable of withstanding temperatures up to 1649°C (3000°F) making them ideal for the most challenging assembly, encapsulation and sealing applications
- Products are supplied in powder form or as ready mixed pastes





# Applications for High Temperature Cements Include



Thermocouples



Igniter Bases

Other applications include furnace repairs, HEPA filter manufacture, lighting, resistors and heating elements

More recently customers have used these products in 3D printing and cast iron stove repairs

# Quality at Glassbond

- Dedicated team of four personnel working within the quality/R&D/technical departments
- Certified and accredited to current international standards for both quality (ISO 9001:2015) and environmental aspects (ISO 14001:2015)
- All site operations are managed within a QMS/EMS framework covering items such as:
  - Control of quality systems/records
  - Internal quality audits
  - Quarantine of products not suitable for use/resale
  - Management of complaints
  - Product non-conformity
  - Corrective action
  - Introduction of new products



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