



## Engineered Solutions

The core of our strategy at Polycorp is the use of our chemical, mechanical, and materials engineering skills to mitigate issues related to corrosion, abrasion, impact, noise, and vibration. Our engineers and chemists come from multiple backgrounds, have more than 600 years combined experience and use advanced technologies such as computer simulation, to ensure customers achieve maximum service life and efficiencies with Polycorp products.

Designing a rubber compound to withstand the harsh environments faced by our customers requires chemists with extensive experience and knowledge.

Protective Linings are exposed to acids, alkalis, and abrasives through a wide range of temperatures. Molded products must withstand wear from sliding and impact forces. Our materials are formulated and designed to meet individual customer requirements. Polycorp Mining, Transportation, and Protective Linings products are also engineered to withstand the dynamic stresses experienced when installed in service.

### Technology

- Polycorp develops and owns all its formulations; many of which are solely specified by our customers
- Formulations are rigorously evaluated under laboratory and field service conditions
- Polycorp provides engineering designs to optimize customer performance

### Properties

Wear Resistance

Corrosion Resistance

Impact Resistance

Noise & Vibration Reduction

SOLUTIONS



Since its inception, Polycorp has been the beneficiary of a century of experience in manufacturing, research, compounding, and testing of B.F. Goodrich Engineered Products, a base upon which Polycorp continuously expands. The main element of the Polycorp value proposition is technical leadership in material development, product performance and design optimization capabilities.

Polycorp recognizes that, not only is the world the market for its products, but it is also the source of knowledge and resources to help the company attain its goals and continuously improve.

To search for new technologies, Polycorp is actively involved with GreenCentre Canada, a National Centre of Excellence at Queen's University. GreenCentre Canada is North America's largest centre for green chemistry research innovation and commercialization, with Polycorp a founding industry partner.

Polycorp actively participates on association committees to follow and help shape industry, regulatory and technology trends, and develop alliances.

Focused on intellectual property development, Polycorp currently has numerous active and pending patents, several of which have been filed in multiple jurisdictions.

The technology needed to optimize product performance includes using sophisticated Computer Aided Design (CAD), numerical simulation, Finite Element Analysis (FEA) and animation computer software. Polycorp engineers and designers have received extensive training to use these products. Evaluating product performance in a virtual environment allows for reducing prototype development timing.

Technical seminars, bringing together customers and end-users, are organized by Polycorp to discuss market trends, new regulations, product requirements and issues of concern to the industry.

## **PROFESSIONAL ASSOCIATIONS**

### **TRANSPORTATION**

- National Railroad Construction and Maintenance Association (NRC)
- American Railway Engineering & Maintenance Association (AREMA)
- American Public Transportation Association (APTA)

### **MINING**

- Canadian Institute of Mining, Metallurgy and Petroleum (CIM)
- Canadian Association of Mining Equipment and Services for Export (CAMESE)
- Canada Eurasia Russia Business Association (CERBA)
- The Society for Mining Metallurgy and Exploration (SME)

### **PROTECTIVE LININGS**

- National Association of Corrosion Engineers (NACE)
- Chlorine Institute
- Materials Technology Institute (MTI)
- Gulf Petrochemicals & Chemicals Association (GPCA)

