



Presentation

**Illinois Tool
Works**

ITW Wind Group

**Products &
Applications**

Super Red Teflon



**100
YEARS
STRONG**



2011 PERCENTAGE OF
TOTAL COMPANY REVENUE



A NEW CENTURY GROWING A GLOBAL COMPANY

When Byron L. Smith and a group of investors founded ITW in 1912, they could not have imagined the scope and breadth of the company 100 years later. Today, ITW businesses are operating in nearly every corner of the globe, in both firmly established industries and exciting, emerging markets. In fact, more than half of our total company revenue comes from countries outside of North America, and it is a number that we expect to keep growing.

We are working hard to ensure that our next century is a story of industry leadership on a global scale. We believe the values and tools that have served us so well will be just as relevant in the next century, and we look forward to a future of continued profitable growth.



Transportation

Components, fasteners, fluids and polymers, as well as truck remanufacturing and related parts and service

PERCENT OF TOTAL COMPANY REVENUES
17%



Power Systems & Electronics

Equipment and consumables associated with specialty power conversion, metallurgy and electronics

PERCENT OF TOTAL COMPANY REVENUES
16%



Industrial Packaging

Steel, plastic and paper products and equipment used for bundling, shipping and protecting goods in transit

PERCENT OF TOTAL COMPANY REVENUES
15%



Food Equipment

Commercial food equipment and related service

PERCENT OF TOTAL COMPANY REVENUES
11%



Construction Products

Tools, fasteners and other products for construction applications

PERCENT OF TOTAL COMPANY REVENUES
11%



Polymers & Fluids

Adhesives, sealants, lubrication and cutting fluids, and hygiene products

PERCENT OF TOTAL COMPANY REVENUES
8%



Decorative Surfaces

Decorative surfacing materials for furniture, office and retail space, countertops and other applications

PERCENT OF TOTAL COMPANY REVENUES
6%



All Other

All other operating segments

PERCENT OF TOTAL COMPANY REVENUES
16%



- \$17,8B in Revenue 2011
- >820 Decentralized Business Units
- Operating in 52 Countries Worldwide
- Employing >60,000 Men and Woman







- Strategic Operations in:
 - North & South America
 - Europe & India
 - Asia
- Providing Solutions to the Wind Market through:
 - Extensive product depth
 - Deep R&D resources and product development
 - Geographical coverage



- We Provide:
 - Leading Industry Brands & Technologies
 - New Product Development
 - Innovative Solutions
 - Customization of Products
 - Product offerings from > 840 business units throughout the world





”You are never more than a few feet away from an ITW product”

ANAEROBICOS **D CLEAN** **autobrill LEBO** **applied** **SIGNODE** **Atlantic Mills, Inc.**
Devcon **ER SYSTEMS** **FORTÉ** **FRANKLYN INDUSTRIES** **FUTURA** **Densit**
Korroflex **ITW Dymon** **ITW TACC** **JAMES BRIGGS** **KLEINMANN**
STOKVIS TAPES **Krafft** **LPS** **M&C Specialties Co.** **MAGNA INDUSTRIAL CO. LIMITED**
PLEXUS **NORDENOLJE** **ITW Gema** **COLGED** **PACIFIC POLYMERS** **slime**
ROCOL **PolySpec** **THIOKOL** **INSTRON** **ITW motion** **Miller** **Permatex**
HOBART **sm** **Spray Nine** **IISYSTEMcare** **QMI** **VersaChem** **Wynn's**



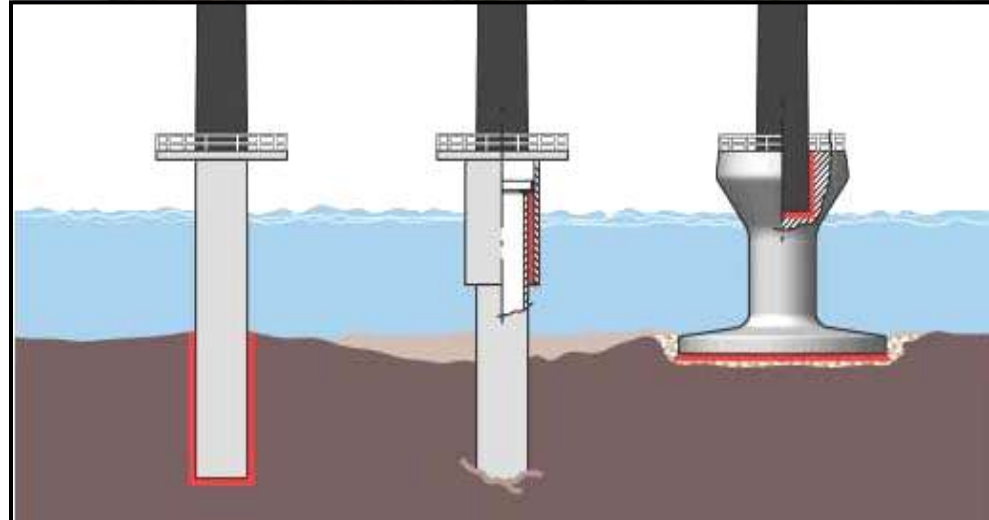
Product / Brand Offerings



ULTRA HIGH PERFORMANCE CONCRETE (UHPC) SOLUTIONS

Type of applications

- ✓ Direct connection
- ✓ Remedial work
- ✓ Under casting

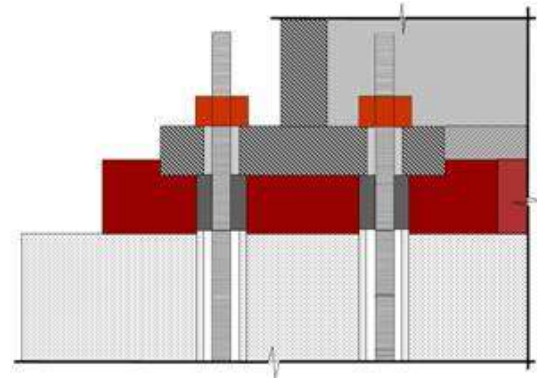




Epoxy Grouting / Polymer Concrete

Chockfast[®]

- Epoxy Grouting
 - Grouting between tower and foundation
- Polymer Concrete
 - Reconstruction of damage foundations





OEM Structural Adhesives

- Methacrylate
 - Structural bonding of blade halves
 - Nacelle assembly
 - Secondary bonding of counter weight, lightning suppression
 - OEM and in Field Repair

PLEXUS[®]
Structural Adhesives





Others Adhesives



Silicones Siloc

Poliuretanos Siloc

Poliuretano Bicomponente Siloc

Sprays Siloc

Linha PVC Siloc

Aplicadores Siloc

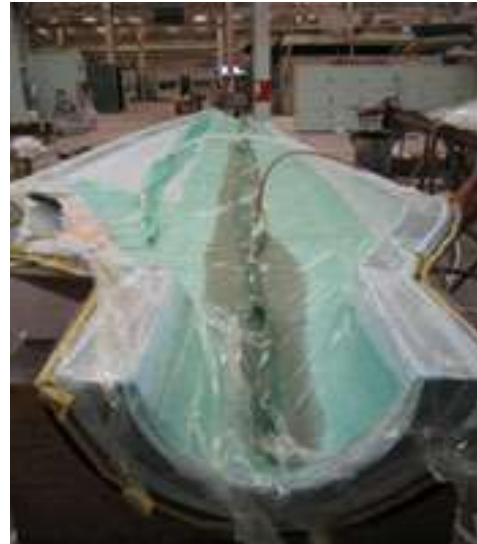
Auxiliares Siloc

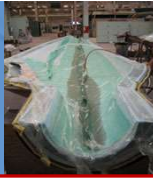
Outros Siloc



Infusion Tapes

- Tacky Tape Vacuum Bag, Debulking & Resin Dam Tapes
 - Room and high temperature formulations
- Teflon release films
 - Mould releases
- Other...





Masking / Protective Tapes



- Leading Edge Tape
- Protective tape
- Masking & Paper Tape
- Die Cut Hole Coverings
- Anti Slip Tape



Industrial & MRO Aerosols



- Silicone Spray
- Wire Pulling
- Leak Detector
- Electrical Protection
- Contract Cleaners
- Penetrates
- Mold Release
- Zinc Spray
- Anti-Seize & assembly paste



Sealants, Threadlockers, Gasketing, Retaining Compounds

- Secure: Screws, Studs & Nuts
- Anit-Seize & Lubricants
- Apply Silicone Gasketing for Assembly
- Retaining Compounds
- Water Resistant Sealants

Permatex®





Oils & Greases





Coatings & Sealants

- Leading Edge Coatings
- Non-skid Coatings
- Urethane & MSP Sealants





Cleaners, Marking, Anti-corrosion, Cutting Fluids & Anti Freeze



DYKEM



TW Dymon



ROCOL



Permatex



Welding for Metal Towers

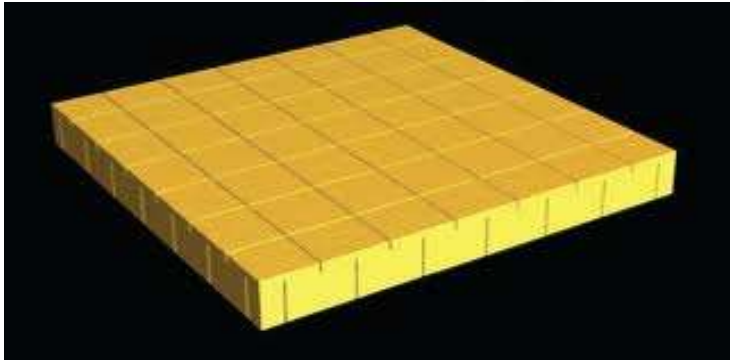


A tour of Miller Welding revealed layers of impressive talent and technology. We captured the industrial scale, technological smarts and human dimension of Miller.



PU Foams

TW INSULATION SYSTEMS





Super Red Teflon Tape



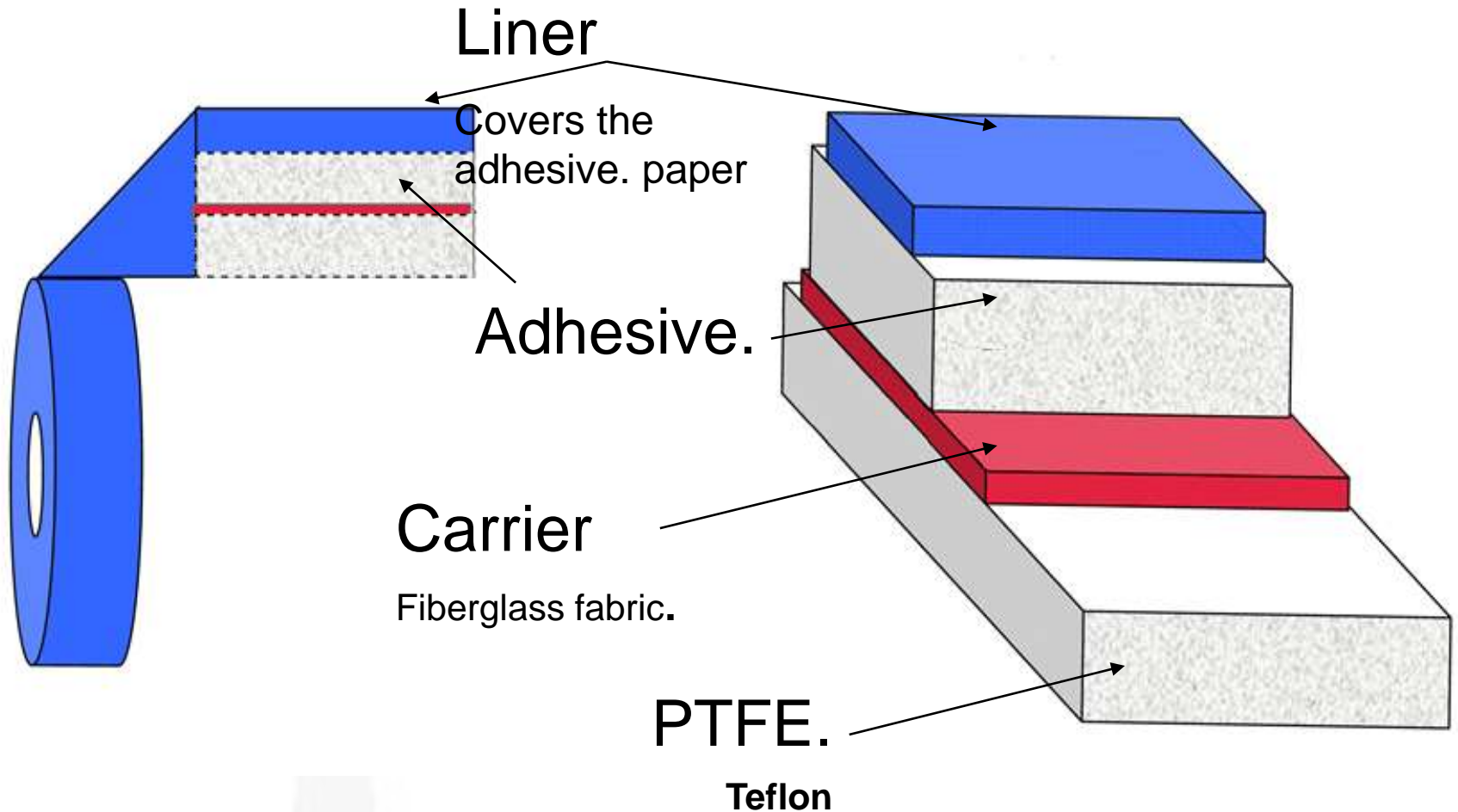
Typical Properties

Product Number	SGB6-04
Backing Material	PTFE-Coated Fiberglass Fabric
Adhesive Type	Silicone
Total Thickness (in.)	.0063
Backing Thickness (in.)	.0043
Adhesive Thickness (in.)	.0020
Adhesion to Steel (oz./in.)	45
Elongation (% at break)	<5
Operating Temperature (°F)	-100 to 500
Break Strength (W) (PLI)	100
Break Strength (F) (PLI)	75
Trap Tear (W) (lbs.)	6
Trap Tear (F) (lbs.)	3
Adhesive Shelf Life	>12 months
Dielectric Strength (volts)	7,000

Values shown are typical. Certified test reports for writing specifications are available.



Super Red Teflon









Simple Aplicação

1. Posiciona o Super Teflon do molde;
1. Utilizando luva de algodão e espátula realiza a colagem. Sempre retirando as bolhas
 - Princípio de colagem de adesivos



Cuidados

- Para continuidade do filme, o super Teflon pode ser sobre-posicionado em 50 mm
- Pequenas manutenções podem ser feitas ao longo do tempo com tiras de Super Teflon. Sempre respeitado a sobreposição



Vantagens a curto e médio prazo

- Desempenho de até 50 desmoldagens com uma única aplicação;
- Proteção total do molde
 - Molde não precisa mais ser polido ou lixado
- Molde não precisa ser limpo entre desmoldagens
- Economia real de HH
- Visualização imediata em caso de falha do desmoldante;
 - Permitindo reparos em pequenas regiões





Vantagens a longo prazo

- Maior durabilidade do molde;
- Integridade permanente do perfil do molde;
 - Perfil da pá sempre igual
- Eliminação do desmoldante semipermanente;
- Montagem sem cheiro ou odores
 - Saúde ocupacional;



Perguntas