

# Adhesive Selector Guide EMEA





**Introduction**

ITW Performance Polymers provides a broad range of advanced structural and semi-structural adhesives that help optimize manufacturing and assembly techniques and processes.

We collaborate closely with our customers so we have a deep understanding of all aspects of their bonding requirements. This results in providing superior technical service and developing innovative solutions to address customer needs. Our broad range of adhesives are suitable for bonding the vast majority of composites, thermoplastics, metals, and dissimilar substrates.

**Plexus MMA and Hybrid adhesives** create long-lasting, durable bonds that withstand harsh environmental exposure and manage stress with minimal or no surface preparation.

**Devcon epoxy adhesives** provide excellent adhesion to the toughest of metals. They deliver excellent peel and shear strength while offering extreme chemical and environmental resistance.

Our commitment to quality is delivered in every adhesive system we produce providing our customers with highly reliable and consistent products.

ITW Performance Polymers is ISO 9001 and 14001 certified. Our products are registered under EU REACH regulations where applicable.

**Technical Support**

**Comprehensive Test Programs**

Developed to ensure how products perform on customer substrates and service conditions.

**Technical and Sales Support**

Guidance in product selection, application, and dispensing methods and equipment.

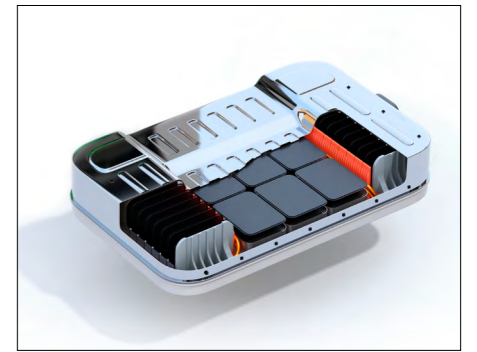
**Global Reach**

Our strategic partners ensure that customers can access Plexus products and services around the world. Our team understands modern manufacturing and supply chain challenges, and are always available to demonstrate our range of adhesives and consult on your bonding applications.

**EV Battery & Electronics**

In Asia-Pacific, EMEA, and North America, manufacturers of electric vehicle batteries, consumer and industrial electronics, and electrical equipment choose Plexus structural adhesives or Insulcast® potting and encapsulation products for applications in protection, insulation, thermal management, and structural bonding. Our offering of globally available products meets customer specifications and provides performance and durability.

- Selection of chemistries to meet customer requirements.
- Globally available products & support.
- Meets industry specifications & standards.
- Excellent fatigue resistance.
- Outperforms mechanical fastening.
- Manages stress, heat, and impact for increased safety & durability.



**Transportation**

Bus, Truck, and Rail manufacturers choose Plexus for a variety of applications. Plexus adhesives are used to bond floors, interior panels and dividers, modular interior furnishings, roof assemblies, and underfloor supports in rail wagons; and composite body panels, front and rear light assemblies, grilles, and end-caps in bus and truck. Plexus' industry-leading technology is popular for its reliability and ease of use.

- Rapid cure at room-temperature reduces production time.
- Resistant to oil & diesel.
- Bonds dissimilar substrates
- Excellent fatigue resistance.
- Outperforms mechanical fastening.
- Increases design freedom.



**Wind Energy**

Plexus structural adhesives have increased the efficiency of production processes and improved design capabilities used by wind turbine manufacturers around the world. Commonly used to manufacture wind-blades, nacelle housings, and lightning suppression systems, Plexus structural adhesives create high-strength bonds to virtually all polyester resins and gel-coats, as well as most thermoplastics and metals.

- Chemically fuses composites.
- Superior bond strength and fatigue resistance.
- Decrease production costs.
- Increases throughput.
- Distributes stress to improve durability.



**Marine**

Plexus structural adhesives are a mainstay of the global marine industry. From ski-boats to mega-yachts, more than three-quarters of boat-builders count on Plexus' 1:1 and 10:1 marine formulations for a variety of applications like deck-to-hull, liners, composite stringers, and more. Plexus adhesives require little or no preparation, reducing processing, and speeding up production.

- Fast, easy assembly.
- Hand mixing possible.
- Gap-filling up to 2in.(50mm).
- Excellent fatigue resistance.
- Chemically fuses composites.
- Superior bond strength & fatigue resistance.
- Distributes stress to improve durability.



**General Industrial**

Plexus adhesive systems are a 'go-to' solution for modern manufacturing requirements, providing durable and long-lasting assemblies using 'greener' processes that produce sleek designs that are aesthetically pleasing for the end-user. Whether for underground pipes, commercial signs, sporting goods, or spas and bath fixtures, manufacturers choose Plexus adhesives for consistency, reliability, and the support they receive with every product.

- Reduced process steps.
- Bonds a wide variety of materials.
- Bonds dissimilar substrates.
- Excellent fatigue resistance.
- Variety of working & fixture times to meet customer process requirements..
- Increases design freedom.







# PLEXUS®

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The technical information, good faith test recommendations, and other statements contained in this brochure are based upon tests or experience that ITW Performance Polymers believes are reliable, but the accuracy or completeness of such information is not guaranteed. The information provided is not intended to substitute for the customers' own testing.

