



PolyAspartic

Industrial Applications
Extreme Durability
UV Stability

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Industrial Applications Extreme Durability UV Stability

SHIMICOAT Polyaspartics offer exceptional durability and versatility, making them one of the most reliable coating systems on the market. Whether clear or tinted in a variety of colors, these coatings are perfect for both indoor and outdoor applications, especially in environments requiring high performance. Their features include:

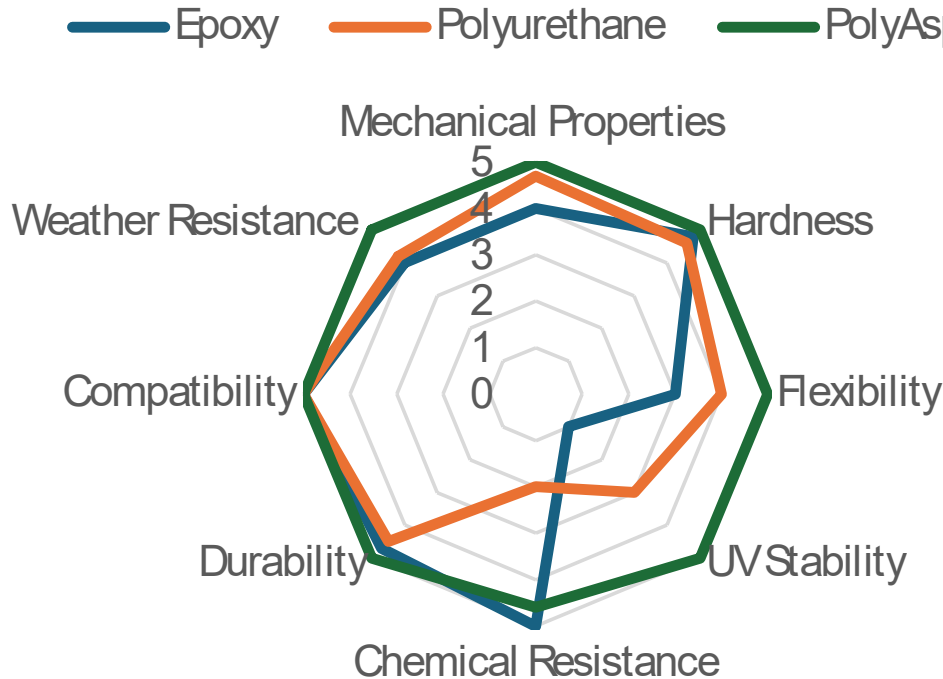
- » **Heavy Duty Protection:**
Designed for use on floors subject to heavy traffic or harsh conditions, these coatings can withstand extreme wear and tear.
- » **Chemical Resistance:**
The polyaspartic formulation resists many common chemicals, protecting surfaces from spills, stains, and harsh cleaning agents.
- » **UV Stability:**
SHIMICOAT Polyaspartics are specially formulated to offer long-lasting protection against UV rays, ensuring color retention and preventing degradation over time, even in outdoor settings.
- » **Hard-Wearing Finish:**
The coatings provide a tough, durable finish that maintains its appearance and performance under challenging conditions.

These coatings are ideal for industrial, commercial, or residential floors where high durability, safety, and aesthetic appeal are paramount.



Comparative Analysis

Physical Properties of Resins



Graph Description:

The graph compares coatings (epoxy, polyurethane, and polyaspartic) based on **direct sun exposure performance, chemical resistance** and a few other properties.

1. Performance & Distance from Center:

The farther from the center, the better the performance.

2. Epoxy:

Performs poorly under direct sun due to UV degradation but is strong in **chemical resistance**

3. Polyurethane:

Performs decently under sunlight but isn't the best in either category.

3. PolyAspartic:

Performs the best under direct sun, showing superior UV stability but may not be as Chemically Resistant as epoxy.

In summary, **Polyaspartic** excels in sunlight exposure, while **Epoxy** leads in chemical resistance. **Polyurethane** is an average performer in both areas.

HONOURS & MANAGEMENT SYSTEMS

SHIMICOAT Products are Fully Certified in accordance to “Australian Standards”:

1. > HACCP International Approved / Food Safe Certified. Please review *SHIMICOA HACCP* Certification for further details:
2. > **Potable Water** approved, means: Drinking Water Safe and Certified. Please review SHIMICOAT Potable Water report and WaterCorp Approval for further details.
3. > **ISO** Accredited Manufacturing Company:



4. > **AICIS / NICNAS Certified**, Australian Industrial Chemicals Introduction Scheme.
5. > **APAS Certified**. Australian Paint Association Certified. Means, our products can be used in Hospitals, Government Buildings and Public Places.

APPLICATIONS

- » Engineering Repair & Machinery
- » Tank Lining
- » Overhead Pipeline Coating
- » Anticorrosion Topcoat
- » Vehicle Coating Film
- » Fast Cure, Quick Service & High Impact Flooring
- » Load Bearing Slab
- » Cool Rooms & Refrigeration Floors & Walls
- » Sports Bars
- » Art & Metallic Floor Coating
- » Deep Cast & River Table Art
- » Swimming Pool Coating
- » Waterproofing (Pool, Shower, Dam)
- » Wall & Roof Waterproofing
- » Sewage Waterproof
- » Multi-Purpose Sealant
- » Photovoltaic & Solar Panel Protection
- » Wind Turbine Blade Protective Coating
- » Tower Coatings
- » Offshore steel structures
- » Interior & Exterior Wall Coating
- » Fibreglass Reinforcement

FEATURES & BENEFITS

- Extreme Weatherproof
- Corrosion Inhibitor
- Excellent Insulation Properties
- Scratch Resistance
- Long-Lasting Protection “25 Years”
- High Strength and Tough
- High Impact Compressive Floors
- Strong Adhesion to Metal Surfaces
- High Strength and High Elongation
- Eco Friendly (No VOC)
- Diverse Colour Range
- Curative at Sub-Zero Temperatures
- Seamless **“No Overlapping Seams”**
- Reduces Construction Interrupt
- Enhances Efficiency
- High Impact Compressive Floors
- Strong Adhesion to Metal Surfaces
- Extended Pot Life (Up to 180min)
- Easy Roller/Brush/Spray Application
- Fast Cure at Low Temperatures

ZERO VOC
SHIMICOAT
SURFACE SOLUTIONS



SHIMICOAT
AMBIENT TEMPERATURE



- Quick Drying / Fast Recoating
- Thin-coating Spray Application (40-60 µm)
- Single Coat Roller/Brush Application (200-400 µm)
- Single Coat Thick Application (500 µm)
- Solvent Free



- Flexi Coating & High Elasticity
- High Strength and High Elongation
- Non-Yellowing
- Available in High Gloss, Satin or Matte Finish
- Odorless

CHEMICALRESISTANT
SHIMICOAT
SURFACE SOLUTIONS



STAY TUNED

FUTURE DEVELOPMENT PROSPECTS OF POLYASPARTIC

- Lower cost
- Better salt spray resistance
- Lighter colors
- Better thermal stability
- Longer potlife
- Lower viscosity
- Dual-curing
- Water-based

RESEARCH AND DEVELOPMENT

At SHIMICOAT, we are committed to advancing surface solutions and Materials. Our Research & Development (R&D) team, guided by industry experts with over 30 years of experience, strives to innovate and improve our product offerings through extensive testing, customer feedback, and real-world applications. Our R&D capabilities are supported by advanced facilities and resources, including:

- Coating and Adhesive Laboratories
- Paint and Sample Testing Workshops
- Synthesis and Manufacturing Factory



Key Innovations:

SHIMICOAT is proud to be a pioneer in the Australian market, introducing Slow Cure PolyAspartic with up to 3 hours Potlife (180Min). This breakthrough allows installers and DIY users to benefit from an extended working time, making the application of PolyAspartic easier and more manageable.

Future Development Prospects for PolyAspartic:

We are continually exploring ways to enhance the performance and versatility of PolyAspartic. Some of the key areas we are focusing on for future development include:

- **Longer Potlife:** Extending the usable time before the product starts to cure.
- **Selective Curing-Time:** Offering PolyAspartic with adjustable curing times based on user needs.
- **Improved Thermal Stability:** Enhancing resistance to high temperatures for broader industrial applications.
- **Better Salt and Chlorine Resistance:** Ensuring greater durability in harsh environments.
- **Lower Viscosity:** Making it easier to apply and spread.
- **Cost-Reduction:** Developing cost-effective PolyAspartic formulations without compromising on quality.
- **Water-Based PolyAspartic:** Creating environmentally friendly options that maintain high performance.

Stay Tuned for more exciting developments as SHIMICOAT continues to lead the way in innovative surface coating solutions.

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