



Engineering Permanent Safety: GRP/FRP Anti-Slip Ladder Rung Covers

A revolution in fall
prevention for industrial
environments.

TP COMPOSITE
ANTI-SLIP SYSTEM CO.

www.tpkompozit.com



Every Rung is a Potential Point of Failure.



Roboto Medium
Standard metal ladder rungs present a significant, persistent hazard in industrial workplaces.



Roboto Medium
Their small surface area, combined with exposure to water, oils, grease, and wear, creates dangerously low-traction surfaces.



This isn't a minor issue; it's a critical safety gap that traditional solutions fail to address permanently.

The Business Impact Goes Beyond the Accident Report.



Regulatory Penalties

Failure to comply with safety regulations results in significant fines and penalties from agencies like OSHA.



Legal Liability

Injured workers can file lawsuits for damages, leading to costly and time-consuming legal battles.



Operational Downtime

Accidents lead to investigations, work stoppages, and reduced productivity, directly impacting your bottom line.



Reputational Damage

A poor safety record harms your company's reputation, making it difficult to attract and retain skilled talent.

Transform Every Ladder into a Beacon of Safety.



High-Risk



Permanent Safety

Introducing the TP Composite GRP/FRP Anti-Slip Ladder Rung Cover.
A non-corrosive, high-traction system designed to eliminate slip hazards permanently.

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The Anatomy of Uncompromising Grip and Durability.



- **GRP/FRP Composite Base**

A high-strength, thermosetting resin matrix reinforced with glass fibers. Inherently resistant to corrosion, chemicals, and impact. Will not rust, rot, or warp.

- **Embedded Aggregate Surface**

We embed sharp Aluminum Oxide or Silicone Carbide grits directly into the resin. This creates an incredibly hard (Mohs hardness 9.0+) and tenacious anti-slip surface that won't wear down like anti-slip tapes.

- **High-Visibility Color**

Standard safety yellow is integrated throughout the material, not just painted on. It will not chip or fade, ensuring permanent high visibility in low-light conditions.

Precision-Engineered for a Perfect Fit on Any Rung.



For Square & Diamond Rungs.

The channel profile fully encapsulates square, rectangular, or diamond-shaped rungs for maximum surface coverage and stability.



For Round Rungs.

Designed to fit securely over standard round metal rungs, providing a robust, flat, high-traction stepping surface.

More Than a Product—A Comprehensive Safety System.



Ultimate Slip Resistance

Provides firm-footed traction in the most challenging conditions—wet, oily, or icy. Exceeds industry standards for slip resistance.



Enhanced Visibility

Safety yellow color provides outstanding visual contrast, clearly defining the stepping area and enhancing safety in all lighting conditions.



Extreme Durability

Impervious to corrosion, chemicals, UV radiation, and heavy boot traffic. A true “install and forget” solution with a 10-year warranty.



Simple Retrofit Installation

Easily installed over existing rungs using industrial adhesive or mechanical fasteners, often without the need for hot work permits.

Certified Performance: Data That Speaks for Itself.

Test / Standard	Result / Classification
Slip Resistance (DIN 51130)	R13 (Highest Classification)
Slip Resistance (ASTM D4518)	
Dry Condition	0.53
Wet Condition	0.50
Oiled Condition	0.49
Fire Resistance (AS 1530.3)	
Ignitability Index (0-20)	14
Spread of Flame Index (0-10)	0
Heat Evolved Index (0-10)	2
Impact Resistance (ASTM D2794)	196 kg cm
Ageing Resistance (ISO 20340)	No Blistering, Rusting, Cracking, or Flaking after 4,200 hours

Full test certificates are available upon request.

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Proven in the World's Most Demanding Industries.



Oil & Gas / Maritime



Chemical & Refining



Manufacturing & Power Generation



Mining & Metallurgy



Construction & Logistics

Simple to Install. Even Simpler to Maintain.

INSTALLATION PROCESS

1



PREPARE

Ensure the existing rung is clean, dry, and free of loose paint, rust, or grease.

2



APPLY

Apply a generous bead of industrial-grade adhesive (e.g., Sikaflex 291) to the inside of the GRP cover.

3



SECURE

Press the cover firmly onto the rung, ensuring a tight fit. The ladder is ready for service after the adhesive cures (typically 6 hours).

MAINTENANCE



LOW MAINTENANCE

No special care required. Regular cleaning with water, detergents, or pressure washing is sufficient to remove debris and maintain performance.



Invest in a Proactive Safety Culture.

- Choosing TP Composite GRP/FRP Ladder Rung Covers is more than a product upgrade—it's a commitment to the well-being of your team.
- Eliminate one of the most persistent slip-and-fall hazards in your facility and build a foundation of permanent, reliable safety.
- Protect your people, your assets, and your reputation.



Take the Next Step in Preventing Slips & Falls.



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Contact us today for a consultation, quote, or product sample.

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