

Driving road reinforcement forward



Location: ExxonMobil's Mont Belvieu plastics plant

Constructor: Mason Construction

Method: Concrete slab repair using rebar

Rebar product: MST-BAR™ (containing Proxima™ system)

Date: April 2025

Proxima system-based glass fiber reinforced MST-BAR™ powered the replacement of patch-prone asphalt to a durable 75-year concrete pavement solution in just two days. This lightweight, corrosion-resistant GFRP rebar manufactured with Proxima resin system allowed ExxonMobil to capture the benefits of faster installation, reduced labor, and lower long-term maintenance costs.

Compared to steel, Proxima GFRP rebar's lightweight properties allowed for ease of use and speed of installation without lifting machinery, while its durability promises lasting strength and lower lifetime costs.



Steel vs rebar

"We're pleased with the product and have no intention of going back to steel."

Brian Cavarretta,
Supervisor, ExxonMobil



**Anti-corrosion
performance
extends slab life**



**Up to 75% lighter
than steel**

Part of the **Proxima™** in practice series | Real performance. Real conditions. Real impact.

Real impact

At Mont Belvieu, constructors replaced 6 tons of steel with just 1.4 tons of Proxima™ GFRP rebar, enabling pre-tying the rebar, hand-carrying mats, and then setting them in place without cranes or hot-work sparks. The MST-BAR™ — made with Proxima resin — delivered faster installation, easier handling, and expected long-lasting durability to better withstand heavy duty traffic. The result is less downtime, lower maintenance costs, and reduced material consumption.



"It's been a smooth transition from steel. Lighter, stronger and faster to place. It should become the new standard."

**Trey Berry, Superintendent,
Mason Construction**



The Proxima advantage

Traditional steel rebar is heavy and prone to rust which could lead to costly repairs in harsh environments. MST-BAR™ created with Proxima resin offers:



Lightweight

- Up to 75% lighter than steel for easier handling and transport
- Enables the rebar to be tied beside the excavation and lifted into place by hand with limited need for heavy equipment



Corrosion Resistance

- Anticorrosion performance
- Corrosion resistance means concrete does not need to protect the rebar from the environment, potentially reducing requirements on concrete cover and mix



Speed

- Installed 40% faster than steel rebar
- Parallel excavation and rebar tying results in shorter installation time



Cost Savings

- Less downtime and fewer repairs leads to lower life-cycle costs
- Lower labor costs as installation is completed, resulted in crew hours cut by 40% for rebar placement

Visit proxima.com or email proxima@exxonmobil.com to discover how Proxima resin systems can help you bring innovation to your business

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202507-PRX-VIU_MBPP_001

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