



Press Release

September 21, 2026

Formulated without isocyanates: polyurethane alternative for demanding elastic bonding

Henkel launches new adhesive and sealant for high-performance bonding in rail and industrial applications

Düsseldorf – Henkel Adhesive Technologies has launched Teroson MS 940, a new adhesive and sealant formulated without isocyanates for demanding elastic bonding in rail and industrial applications. Based on a new polymer package, the product exceeds the mechanical performance of standard silane-modified polymer (SMP) solutions in elongation and tensile strength, enabling manufacturers to replace polyurethane systems while maintaining the performance required for high safety factors and tightly constrained bondline dimensions.

Rail vehicle manufacturers are under increasing pressure to use solutions formulated without isocyanates. At the same time, elastic bonds in rail applications must withstand dynamic loads, vibration and fatigue over the entire service life of the vehicle. Until now, standard SMP technologies have generally not delivered the combination of elongation and tensile strength needed to compete with polyurethane in these demanding applications. Teroson MS 940 is designed to close this performance gap and raise the benchmark for elastic bonding.

"With Teroson MS 940, we are taking elastic bonding to a new level," said Guillaume Sandoz, Global Application Engineering Expert for Rail at Henkel. "The new polymer package delivers the mechanical performance required for demanding rail applications while enabling manufacturers to move away from polyurethane systems. This means they no longer have to choose between chemistry formulated without isocyanates and the performance needed for reliable, long-term elastic bonds."

Teroson MS 940 was specifically developed for the demanding conditions encountered by rail vehicles. It offers resistance to UV radiation, weathering and aggressive rail cleaning agents, helping maintain bond integrity in interior and exterior applications throughout the vehicle's service life. The adhesive is particularly suited to the bonding and sealing of windows, doors,

window frames, panels and other structural and semi-structural components in railway carriage manufacturing. It can also be used in vehicle body manufacturing, specialized transportation and general industrial assembly.

The product offers primerless adhesion across a broad range of substrates, including raw metal sheets, electrophoretic-coated surfaces, painted substrates, glass and plastics. It is also suitable for low-energy surfaces such as anti-graffiti coatings, anti-scratch paints and intumescent coatings, where primers are commonly used. This can simplify processing in suitable applications. The gun-grade, ready-to-use formulation cures with atmospheric moisture, while optional acceleration with Teroson MS 9372 can support faster processing where required. Teroson MS 940 can be applied at temperatures from +15°C to +40°C and is suitable for service temperatures from -40°C to +100°C, with short-term exposure up to +120°C.

About Henkel

With its brands, innovations and technologies, Henkel holds leading market positions worldwide in the industrial and consumer businesses. The business unit Adhesive Technologies is the global leader in the market for adhesives, sealants and coatings. With Consumer Brands, the company holds leading positions especially in laundry & home care and hair in many markets and categories around the world. The company's three strongest brands are Loctite, Persil and Schwarzkopf. In fiscal 2025, Henkel reported sales of about 20.5 billion euros and adjusted operating profit of around 3.0 billion euros. Henkel's preferred shares are listed in the German stock index DAX. Sustainability has a long tradition at Henkel, and the company has a clear sustainability strategy with specific targets. Henkel was founded in 1876 and today employs a diverse team of about 50,000 people worldwide – united by a strong corporate culture, shared values and a common purpose: "Pioneers at heart for the good of generations." More information at www.henkel.com

Photo material is available at www.henkel.com/press

Contact Caroline Sach
Phone +49 211 797-3479
E-mail caroline.sach@henkel.com

Svenja Meurer
+49 2602 950 99-15
svm@additiv.de

Henkel AG & Co. KGaA

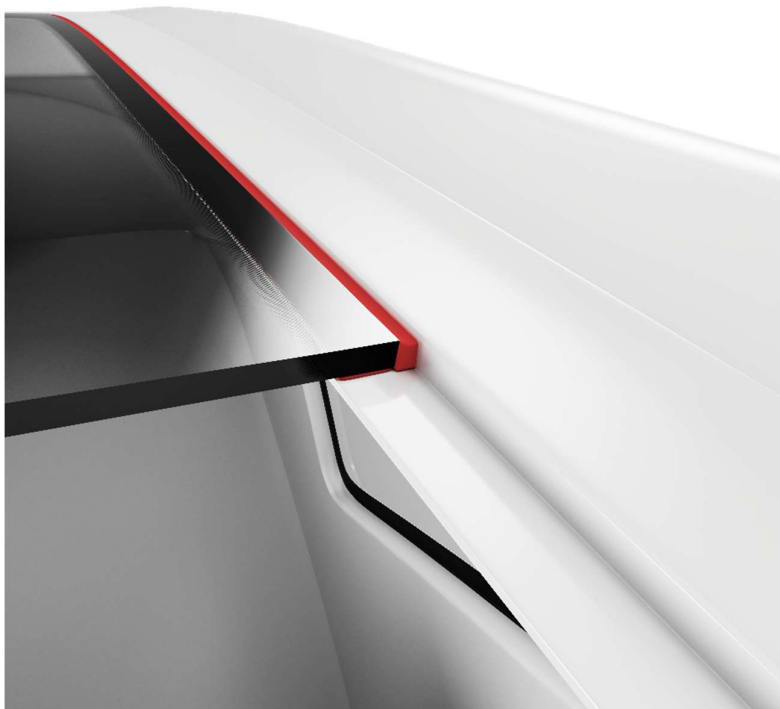
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Teroson MS 940 is a one-component elastic adhesive formulated without isocyanates for demanding rail and industrial bonding applications.



Windshield bonding is a demanding application in rail vehicle manufacturing, where elastic joints must withstand vibration, weathering and frequent cleaning throughout the vehicle's service life.



Designed to combine high mechanical performance with durable elasticity, Teroson MS 940 enables demanding elastic bonding without compromising process efficiency.