



Smart and Safe Solutions

ADHESIVE AND SEALANT SOLUTIONS FOR RAILWAY VEHICLES





Bostik – Adhesive and Sealant Solutions for Safety on the Railways

Manufacturers of trains and metros share a great responsibility. Their vehicles are designed to transport large numbers of people on a daily basis, meaning they must be strong, safe and reliable. Faced with an average lifespan of decades for their products, manufacturers as well as their suppliers have a long-term vision.

Bostik is a partner in adhesives that is involved with its clients right from the start, offering solid solutions: adhesive and sealant systems. These systems take into account vibrations, temperature variations, the effect of sunlight (UV), torsion stiffness, shear strength and tensile force, and the effects of varnish, paint and cleaners. In short: solutions which are the result of expertise and years of experience.

Safety is essential to mass transit vehicles. In the near future, forthcoming European legislation will impose stricter standards. Bostik is ready for that future. At Bostik, we develop our products for the future, anticipating the new European standards of railway vehicle safety. Through continuous collaboration with various recognized test institutes, we fulfill the most rigorous requirements of the market. And we are ready to do the same for you!

RELIABILITY AND SAFETY THROUGH ENGINEERED ADHESIVES AND SEALANTS

Bostik tests its Simson products according to the industrial railway standard DIN6701 on mechanical strength and aging behaviour. In addition, Bostik has developed a new sealant which meets the highest requirements in the railway vehicle industry according to the latest European standard of fire protection: EN45545. Bostik offers an excellent SMP based, fire retardant range for rolling stock.

ISR 70-03 FR – A STATE-OF-THE-ART FIRE RETARDANT

Simson ISR 70-03 FR is the first SMP based technology that anticipates the latest fire protection legislation, meeting the highest hazard levels according to the European standard EN45545. ISR 70-03 FR has obtained a hazard level 3 in smoke density, toxicity and oxygen index.



Simson – Where Safety Meets the Standard

Railway vehicle manufacturers worldwide use Simson products for window bonding and sealing and bonding floor systems, panels and strips in both interior and exterior applications.

By providing a versatile range of efficient and easy to use sealants and adhesives, we enable our customers to maximize a scope of product applications, diminish the use of solvents in the bonding process, and reduce overall vehicle weight.

SIMSON SOLUTIONS FOR THE RAILWAY INDUSTRY, NOW AND IN THE FUTURE

Simson's distinguished range of elastic solutions is based on Silyl Modified Polymer. SMP excels in temperature resistance, UV resistance, and durability even under challenging environmental conditions. Another important advantage of the leading SMP technology is that pre-treatment is limited or may be eliminated entirely.



1. FIRE RETARDANT WINDOW SEALANT AND CONSTRUCTION ADHESIVE

ISR 70-03 FR is an SMP based fire retardant sealant that complies with EN45545. This sealant is suitable for both interior and exterior applications and can be used in all types of railway vehicles.



2. ADHESIVES FOR WINDOW AND PANEL BONDING

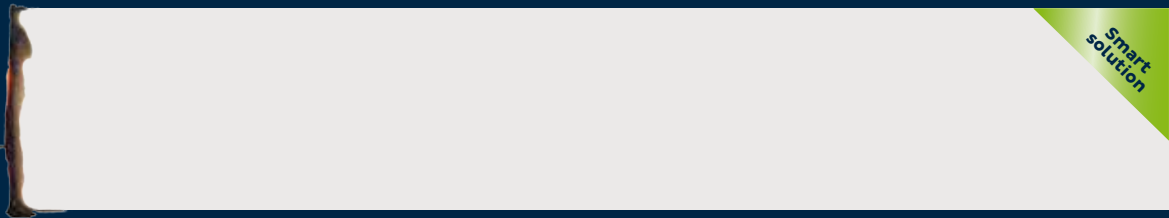
ISR 70-08 Advanced Performance is a high-quality, SMP based product specifically developed for bonding windscreens and side panels. ISR 70-08 AP is tested according to DIN6701 which includes fatigue, temperature variations, UV-A and cataplasm testing.



3. SOLVENT FREE SOLUTIONS FOR INTERIOR FINISHING

ISR 70-03 is an SMP-based elastic adhesive that is used between train body and floor parts. When combined with Simson's sprayable ISR 70-07 for applying floor covering, customers can leverage Bostik's complete solvent-free floor adhesive system.





SIMSON ISR 70-03 FR • EUROPEAN FIRE STANDARD EN45545



STANDARD ELASTIC SEALANT

Partnerships

When Bostik decided to develop and test a new fire retardant product for the railway vehicle manufacturing market that anticipates future European legislation, we knew it was of great importance to work with a prominent and reliable partner. Through our existing network of cooperating parties we were introduced to Crepim, a major European actor in the world of developing and testing fire retardant material.

With their experience of over 20 years we knew this was the partner to work with for the testing process of our innovative, multi purpose ISR 70-03 FR according to the EN45545 standard. Through successful partnership with Crepim, which covers formulation guidance to final certification, including in between critical parameter investigation such as oxygen index, toxicity and opacity of smokes. Because of this successful cooperation Bostik is able to offer the railway vehicle manufacturing market a new safety solution: Simson ISR 70-03 FR.

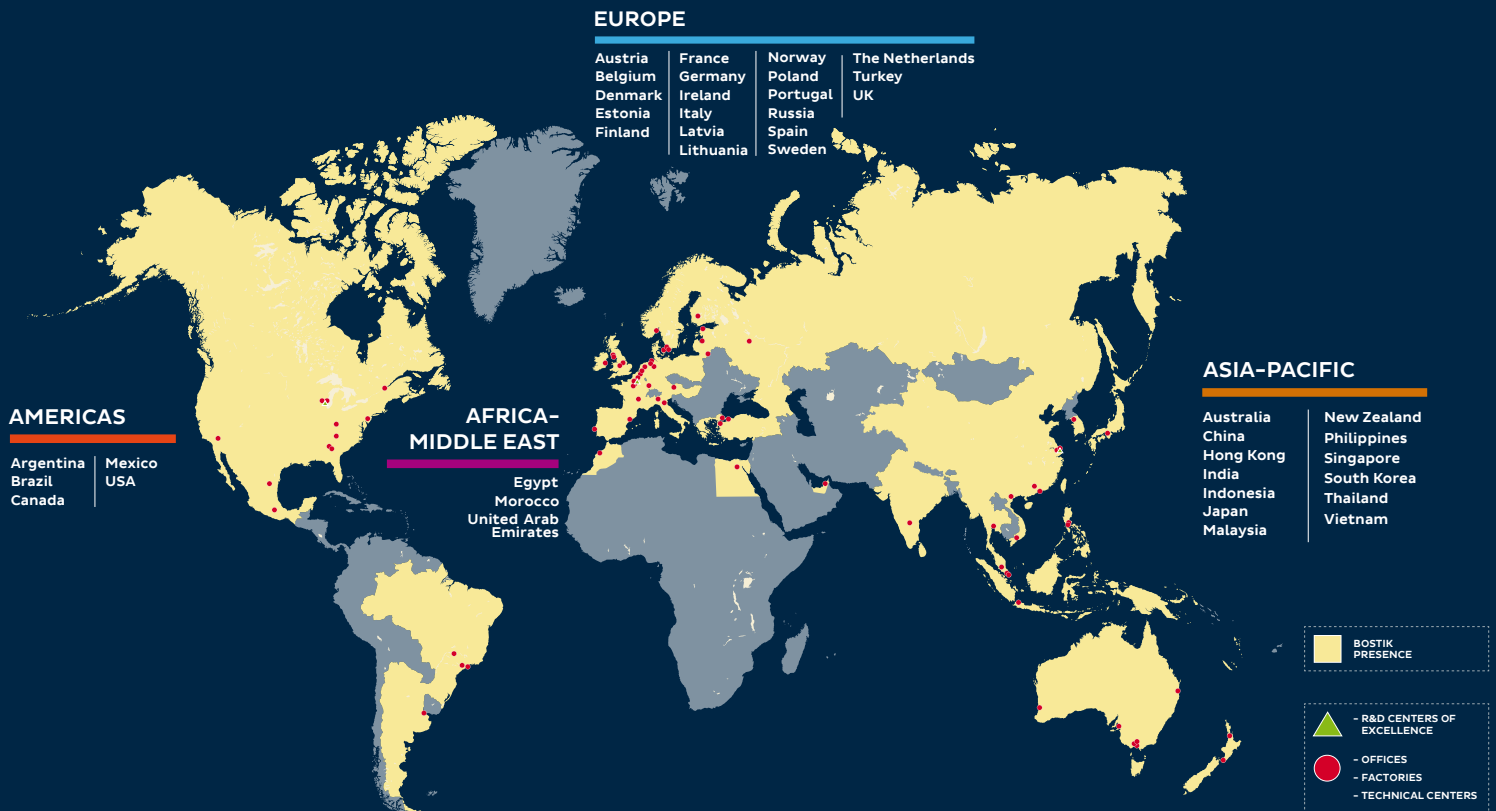
Values of Bostik

Bostik, a wholly-owned subsidiary of the Total Group, is a leading provider of innovative bonding and sealing solutions for the automotive, mass transit (railway, bus and coach), aerospace and marine industries. Through constant research and innovation, Bostik provides a wide range of adhesive and sealant solutions that meet a variety of customer needs while reflecting the highest safety standards in mass transit.

CUSTOMER FOCUS

Customer needs are at the core of Bostik's production process. From the early development of ideas, to the engineering phases of vehicle design through to customer support during on-site production, Bostik works closely with our customers to ensure safety and reliability of the end product. Our technical experts are committed to providing high quality assistance and technical expertise to customers around the globe.

Worldwide presence





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