



Thursday, 23<sup>rd</sup> of April 10:00–10:45 AM

# Top tips for using Structural Adhesives in Rail Industry

## Abstract

---

Adhesives are widely used in construction of rolling stocks – for bonding of windows, interior panels and elements, for assembling floor, ceiling and wall systems and for fixing of insulation materials. End user's demand for comfort, effectiveness, eco-friendly and aesthetics lead to increasing of composite usage in construction of railcar body, instead of traditional materials, such as metals. One of most promising and effective method of joining multi-material construction is Structural Adhesives, which could provide high strength, durability and quality.

## Agenda

---

- ▶ Trends in construction of rolling stocks
- ▶ Technical requirements in Rail for Structural Adhesives
- ▶ 3M Structural Adhesives portfolio and application

## Lecturer

---

**Pavel Krutov**  
**Senior Application Engineer 3M Russia and EMEA**

Graduated Moscow Engineering Physics Institute in 2008 with diploma of Physicist engineer. Works in 3M since 2008, mostly with Industrial Adhesives and Tapes. Got two 3M Circle of Technical Excellence and Innovation awards, one is for project of anti-vandal protection of Subway trains' windows. Author of two Invention Submissions. Currently responsible for Adhesive projects with TMH and other big Rail producers in Russia and CIS.

## Access

---

- ▶ Skype or any other application is not required – you just need web browser
- ▶ **Sign up** is required – please register to receive more interesting information
- ▶ At the end of the lecture there will be time for a Q&A
- ▶ All material presented will be shared with participants
- ▶ An FEA workshop certificate can be provided upon request
- ▶ Contact info: Marcin Domanski [mdomanski@mmm.com](mailto:mdomanski@mmm.com) +48 883-343-380

When:

**Thursday, 23<sup>rd</sup> of April 2020**  
**10:00–10:45 AM**

**[Click here to sign up!](#)**