

PAINTING METAL newsletter

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Feedback is a key component in development

It is essential that we engage in interactive discussion on quality and products with our customers. All customer feedback is important and will be taken into consideration in every stage of our business and quality development processes.

The effects of measures implemented on the basis of customer feedback are not always immediately apparent, because some processes

require long-term development. One thing is for certain: all feedback is definitely welcome, needed, and always taken into consideration.

The costs arising from business and quality development will pay for themselves in the form of customer loyalty and long-term cooperation.

 **Lassi Tirkkonen**
Group Senior Vice President, Metal Paints and Coatings

Higher resistance with less layers

With TEKNOSILOX Teknos now offers an ultra-high-solid paint based on polysiloxane for special requirements regarding surface resistance and corrosion protection. The two component paint combines the advantages of a polyurethane- and an epoxy paint. Due to the high solid content the paint achieves a hard-elastic, high weather-resistant surface with less coating layers and a lower VOC emission.



The ultra-high-solid paint is available in two versions. TEKNOSILOX 3351 is a top coat with a smooth surface and high gloss retention, TEKNOSILOX STRUCTURE 3352 is a structured paint with easily achievable structure effect with all common application methods. Both paints are a low solvent, two component paint with a solid content from over 96 %.

As a corrosion protection TEKNOSILOX fulfills the highest requirements in accordance with ISO 12944 category C5-I/M (long term protection) with a total dry film thickness of ca. 200 µm.

Due to the special formulation based on polysiloxane the result is a hard-elastic surface with extreme weather, water, stain, acids and alkalis resistance as well as a scratch-proofed surface. Also colour shade and gloss are more resistant than in conventional paints.

Easy to use

The paint is easy to handle and can be applied with conventional airless as well as with two-component spray guns. The pot life is 4 hours, the drying time is between two and four hours (dust try/touch dry) suitably fast for short production processes. The paint is ultra-high-solid and therefore VOC-conform for a low emission and a non-hazardous process.



Highly economical paint system

TEKNOSILOX paints are suitable as a top coat for primed steel constructions, bridges,

commercial vehicles, wind power plants, tanks and further steel objects. The fast paint system with fewer application cycles and a higher life time with lesser renovation efforts enables a high economic use.

Benefits are emphasized in difficult to access constructions

The high life time of the coating is especially suited for objects with required high durability as well as difficult to access constructions where the renovation of the surface requires much time and effort.

TEKNOSILOX can also be used to achieve smooth, easy to clean, dirt and water-repellent surfaces, such as tunnel constructions or in machine and plant engineering.

For further information please contact **Carola Goldbach** (carola.goldbach@tekno.de)

 **Carola Goldbach**
Teknos Deutschland GmbH



Soundproof special containers for cogeneration units are painted by Wenker.

Quality inspectors bring added value to Teknos' customers

Certified quality inspectors understand the whole surface treatment process, and they can help with all questions related to painting.

In addition to paint and painting work, there are several other factors that affect the result of painting, such as painting planning, supervision and inspections. Surface treatment inspectors are responsible for ensuring that painting has been completed according to set requirements and applicable standards.

Teknos is known for innovative and high-quality products and competent technical support. Teknos' certified quality inspectors play an important part in bringing added value to our customers.

– Certified quality inspectors have the know-how that enables them to help customers with their technical problems. Customers get a complete package from us, not just the

paint, explains **Mikko Nihtilä**, a FROSIO-authorized quality inspector for corrosion protection.

In Teknos' sales organization in various locations there are a dozen or so certified coating inspectors who have completed an international quality inspector qualification. In addition to internationally qualified inspectors, several professionals, who have completed a national quality inspector qualification, are at our customers' service. In Finland, for example, **Petri Erola** has completed the coating inspector qualification overseen by the Finnish Constructional Steelwork Association FCSA. **Pekka Virolainen** and **Jan Åkerlund** are currently undergoing the same training.

FROSIO

FROSIO is a Norwegian certification system that was established in 1986. FROSIO's objective is to ensure the high quality of corrosion protection and surface treatment in demanding applications with the help of FROSIO-certified inspectors. The FROSIO certificate enables a service that is a valuable advantage for people working in the most demanding trade of surface treatment.

In Finland, **Janne Naarmala**, **Mikko Nihtilä**, **Jyrki Sandberg**, **Marko Oikarinen** and **Tomi Kontunen** have all completed the FROSIO qualification. **Krister Wessman** is currently undergoing FROSIO training.



Measuring the surface temperature from the wall of a container.



Porosity test can be used to check for pinholes, or minimum coating thickness in order to prevent early breakdown on the coating system.

The FROSIO certificate has been completed by **Milan Bertonce** in Slovenia, **James Guo** in China and **Kees van Bladel** in Ireland. James Guo and Kees van Bladel also have the NACE-certified qualification of coating inspectors.

Teknos Russia has two FROSIO-certified quality inspectors, **Vladimir Shibalovich** and **Mikhail Buchnev**, who is also a PROMETHEY-certified quality inspector.

PROMETHEY

The PROMETHEY certificate is a Russian inspector qualification similar to the Norwegian FROSIO certificate. PROMETHEY training is high-quality and it qualifies an inspector to ensure that corrosion protection has been completed appropriately and according to set standards and requirements.

PROMETHEY certification has been completed by **Jan Dobrianski** and **Andrus Mihkelsaar** in Teknos Estonia, **Yuri Pavlov** and **Mikhail Buchnev** in Russia, **Ruslan Shaga** in Ukraine, and **Andrei Padabed** in Belarus.

NACE

Established in 1943, NACE International is a globally known certification system for corrosion protection. The NACE Coating Inspector Program CIP was the first international certification programme to be designed to improve the quality of inspections of the whole corrosion protection process.

NACE-certified inspectors ensure that the painting work fulfils the quality requirements specified for a paint system. They also report all results gathered from the inspection objectively and precisely.

– If the environment, time or any other factor restricts complying with regulations, a NACE-certified quality inspector relies on his or her knowledge of materials for specifying the correct time and conditions for the painting work, says Kees van Bladel, a Certified NACE coating inspector with bridge and marine endorsements.



A method that cuts through the paint film into the substrate can be used, if the objective is to ensure that the paint system is comprised of the agreed number of paint layers.

Since there are many US-based companies in Ireland, NACE certification enhances inspector's professional credibility and also enables access to new customers.

Also **James Guo**, who works in Teknos' sales organisation in China, is a NACE-certified coating inspector.

SOLAS

Korkosz Maciej, who works for Teknos Poland, is a IMO SOLAS (International Maritime Organization, Safety of Life at Sea) -certified inspector for ship painting. The qualification for a Seagoing Ship Paint Coat Supervision inspector, which is approved by the Polish Maritime Administration, is equivalent to NACE Coating Inspector Level 2 and FROSIO Inspector Level III.

Fire safety inspectors

A fire safety inspector is an expert on the

implementation of steel structure fire safety during the construction process. A fire safety inspector ensures that fire safety is implemented according to standards and verified regulations and instructions. An inspector is required to make several inspection visits during the fire securing process.

In Finland, **Pekka Virolainen** and **Markku Uusitalo** have completed the national qualification of a fire safety inspector approved by FCSA.

Further help for inspections

Teknos' professional and certified coating inspectors will happily assist in our customers' processes in tasks related to guidance, inspection or control.



Further information on corrosion protection and its quality management is available in Teknos' Handbook for Corrosion Protection. So far, the handbook has been published in English, Finnish and Estonian. A handbook in Russian is being prepared. You can order the handbook from Teknos or it is available for download under Brochures on the webpage for metal, mineral and powder coatings.

 **Merja Jakobsson**
Publicist, Metal Paints and Coatings

Teknos as a forerunner in transportation safety

Changes in zinc-rich paint cans



Zinc dust paste and silicate part, old 20-litre can and 10-litre canister on the left, new 12-litre can and 5-litre canister on the right.



Zinc-rich epoxy paint component A and component B, old 10-litre component A can on the left, new 12-litre can on the right.

In accordance with the ADR agreement (International Carriage of Dangerous Goods by Road), Teknos has started to pack high-density zinc-rich epoxy paints into new cans. Starting from November, high-density zinc-rich epoxy paints are packed in 12-litre cans only.

To ease the identification of these products, TEKNOZINC 50 SE / 80 SE / 90 SE component A and component B are now labelled with a red stripe.

Also, the filling degree has been changed.

To avoid any misunderstandings, some of the cans are being labelled with a red sticker that notes "New filling degree".



Zinc-containing powder coatings in UN boxes

When the classification of zinc powder chan-

ged a few years ago, Teknos immediately started to use a brown UN-approved carton for powder coatings containing zinc powder, i.e. INFRALIT EP 8026-05 zinc-grey and INFRALIT PE 8316-05 zinc-grey.

As zinc powder was classified as dangerous for the environment, the transport classification also changed. Since then, zinc powder has belonged to class 9.

 **Merja Jakobsson**
Publicist, Metal Paints & Coatings

**Our Warmest Thanks for Your
Cooperation and Prosperous Year 2014**
We wish you a Merry Christmas and a Happy New Year!

Weiste Oy's Christmas decorations are primed with TEKNOPAINT 1553 Varnish and finished with TEKNOPAINT 1554 Varnish.