



## Preparation and painting galvanized tin

Materials supplier: Mendeleev Ltd.

Applied materials: FAS-104, an inhibitory agent for metallic surfaces preparation for painting, Two-Component Enamel NP-1999 for Galvanized Tin.

Objective: Galvanized metal anticorrosion protection enhancement and its decorative design.

Date of operation: December, 2011.

Air temperature: from 16°C.

Relative air humidity: 81%.

Galvanized metal is widely used in construction and restoration finishing of buildings – roof, rainwater pipes, cornices. Quite often the customer requires to design galvanized metal elements in the same color as the building facade, which would make them nice-looking and, at the same time, significantly increase their durability.

Pic.1 – metal rainwater pipes, painted the same color as the building facade.

It is rather hard to paint galvanized metal, as the paint peels off or does not cover the surface at all, therefore this type of metal is treated with mordant first, its protective qualities thus becoming reduced. There is, however, a technical inhibitory detergent for preparation of considerably greased metallic surfaces for painting – FAS-104, containing neither acids nor alkalis. It provides elimination of adipose and oil contaminations Galvanized metal painting process requires particular attention. Galvanized tin must not be painted with oil paint or conventional alkyd paint, as in the result of the surface chemical reaction alkyd paint will oxidize and consequently lose its adhesive quality. As a result the paint will peel off of the surface. Specially designed industrial agents should be used for galvanized metal painting. At the present moment chemical industry market offers quite a wide range of paintwork materials for galvanized tin, Two-Component Enamel NP-1999 for Galvanized Tin being one of the most called-for among them. This coating is capable of replacing three and five-layer complex coating systems, based on alkyd and vinyl film-forming ones. Two-Component Enamel NP-1999 for Galvanized Tin can also be used as prime coating with subsequent decorative painting.

Pic.2 – FAS-104– a substitute for organic solvents, let's pour it into a measuring glass for further dilution with water.

FAS-104 is designed for degreasing of a galvanized surface and lubrication remains elimination. It enhances adhesion of paintwork materials to metallic surfaces. Unlike widely used organic solvents, such as acetone, No. 646 or white spirit, FAS-104 is not highly inflammable or ignitable.

Pic.3 – Dilution of FAS-104 with water.

FAS-104 is recommended for a galvanized surface preparation before immediate painting. Before application the agent is diluted with water at a ratio of 1:50 to 1:100.

Pic.4 – of the surface with the working solution FAS-104 with concentration 1:100

Application of the inhibitory detergent is executed manually with a rag.

Pic.5 – Galvanized metallic surface prepared for painting

Subsequent painting is executed after the metallic surface dries out completely. Preparation of a galvanized surface completed. Then the step of paint coating application follows.

Pic.6 – Two-Component Enamel NP-1999 for Galvanized Tin

Two-Component Enamel NP-1999 for Galvanized Tin is designed for double-layer protection and decorative treatment of galvanized surfaces, being exploited in atmospheric conditions. The composition possesses a high coverage rate.

Pic.7 – Epoxy enamel and hardening agent

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Two-Component Enamel NP-1999 for Galvanized Tin is supplied bundled: the base and the hardening agent

Pic.8 – Adding the hardening agent to the enamel

Before application the hardening agent is mixed to the base and thoroughly stirred up.

Pic.9 – Paintwork materials is stirred up with a glass stick.

Pic.10 – Applying the enamel onto a galvanized surface

Two-Component Enamel NP-1999 for Galvanized Tin is applied without prime coating, two-layer coating is recommended.

Pic.11 – metallic surface, painted with Two-Component Enamel NP-1999 for Galvanized Tin

Galvanized sheet roof, rainwater pipes, window sills, metalwares, products made of galvanized steel require specialized paintwork materials to be painted with. Under the aggressive influence of environment (precipitation, salts, engine exhaust fumes) a thin galvanized sheet, not protected with paint, begins to corrode. Therefore this important detail should not get neglected. Two-Component Enamel NP-1999 for Galvanized Tin is a specialized composition designed by Mendeleev Ltd. company for work with galvanized metal. It is best to be used as adhesive layer, prime coating with subsequent finishing and decorative painting, as a customer may require. Black and silver Two-Component Enamel NP-1999 for Galvanized Tin has a high coverage rate, excellent water and weather resistance as well as perfect adhesion to the painted surface and other finish paintwork materials.

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