SUPERIOR PRODUCTS

Superior Products of Germany

CUSTOMER: BAKU METRO PRODUCTS: RUST GRIP

MARKET: TELECOM & INFRASTRUCTURE

COUNTRY: AZERBAIJAN (COURTESY OF SUPERIOR PRODUCTS CASPIAN)

DATE: 2014 /2015



PROJECT DESCRIPTION

In order to stop further damage by severe corrosion to the metal underground structure of the Metro in Baku, a first test project was set up. The purpose of this test application was to verify the durability and corrosion encapsulation ability of RUST GRIP on non-sandblasted heavy corroded metal parts in the underground tunnel complex.

Rust Grip® was applied in 2 layers at average of 250µ DFT on the test patch. Evaluation was made after full curing adhesion and scratch tests. The responsible engineers were pleased with the highly satisfactory results. (Full description of this demo application is available upon request). Currently the Metro is being coated with the RUST GRIP as a long term structural project.

COATING SOLUTION

All loose corrosion and pack rust is manually removed by use of hand tools such as hammers, chisels and steel wire brushes. Just before every RUST GRIP application each night, all dust and loose objects are blown off the surface by high pressured air with big volume. RUST GRIP is then applied in 2 layers at average of 250μ DFT with spray or roller depending on the profile of the structure and complicated environment at different points in the tunnel.

RESULTS

RUST GRIP is designed to penetrate deep into the pores of any rough, clean and dry surface to make the initial anchor lock. It starts curing by absorbing the atmospheric humidity. As part of its curing process, it expands and swells into the pores to seal off air and moisture and finally sets up to a 6780psi surface tensile strength within three weeks to encapsulate all corrosion and strengthen the metal structure again.

General Conditions within the Metro Tunnel prior to application





Flaking and pack rust before cleaning



Close-up of Tunnel prior to application



Briefing docs related to Test Application



Application images of RUST GRIP







