TRIOCOAT RVS 9710

Standalone coating

MATERIAL DESCRIPTION: Two-component epoxy-phenolic (novolac) coating.

COATING PURPOSE: Intended for anti-corrosion protection of internal surfaces of tanks and tank cars for storage of process water, saline solutions, mineral oil, crude oil, petroleum products; insulated pipelines and equipment made of carbon and stainless steel. Operating temperature in a dry environment is from minus 196 to plus 200 °C.

PHYSICAL CHARACTERISTICS:

Color: Grey, red.

Volume solids: 73±3 %

Theoretical spreading rate: 0.137 l/m² at DFT 100 µm.

Coating thickness:

Recommended thicknesses of 1 coat of the coating

Film thickness	WFT, µm	DFT, µm
Minimum	137	100
Maximum	342	250

It is recommended to obtain the operational coating thickness in 2 or 3 coats.

Drying time and overcoating interval:

Drying time at DFT 150 µm				
Surface temperature	**5 °C**	**20 °C**	**30 °C**	**40 °C**
Drying to degree 3	14 h	6 h	4 h	3 h
Drying to application of the next coat — minimum	20 h	8 h	6 h	5 h
maximum	1 month			

Drying time and overcoating intervals are determined by the actual DFT and external conditions. The drying times given in this section are for guidance only. Accelerated drying at elevated temperature is possible: 0.5 h of holding the coating at plus (20±5) °C, then 1 h at 50 °C (degree 3). When assessing the actual drying time, it is also necessary to take into account the presence of air flows and relative air humidity. In case of exceeding the overcoating interval of the material, it is necessary to carry out a set of measures to ensure roughness and intercoat adhesion.

SURFACE PREPARATION: The material can be applied to prepared and dry surfaces of carbon and stainless steel, concrete, with a temperature at least 3 °C above the dew point. For carbon steel, the preparation process includes the following operations: elimination of surface defects to P2 according to ISO 8501-3; degreasing of the surface (if necessary; recommended solvent — R4); surface cleaning to grade Sa 2.5 according to GOST R ISO 8501-1-2014 with a recommended roughness profile of 50–75 µm and desalting of the surface (if

necessary); dust removal of the surface to degree 2 with a particle size of not more than class 2 according to ISO 8502-3.

Instructions on surface preparation of stainless steel and concrete before painting are given in the Application Manual.

APPLICATION:

Material preparation: The material is two-component; before application, it requires mixing the base and the hardener separately, and mixing in the ratios: 8 : 1 (base : hardener) by volume, with thorough stirring to a homogeneous mass.

Pot life: 2.5 h at plus 15 °C; 2 h at plus 20 °C.

Application method: Airless spraying, manual application.

Thinner: Thinner TRIOSOLV 0002 (if necessary), up to 10 % by volume for airless spraying. For more detailed information, contact O3-Coatings.

Nozzle diameter (recommended): .015"–.019"

Operating pressure (recommended): Not less than 200 bar.

Equipment cleaning: Thinner TRIOSOLV 0002 (other solvents may be used in agreement with O3-Coatings).

Environmental parameters: Air temperature not lower than plus 5 °C; relative air humidity not higher than 85 %.

(In closed rooms, provide supply-and-exhaust ventilation in the appropriate volume for the period of application and drying.)

STORAGE: 12 months from the date of manufacture. It is recommended to store in a dry dark place in sealed factory packaging at a temperature from plus 5 to plus 30 °C, avoiding direct exposure to UV rays and other heat sources.

TRANSPORT PACKAGING: Supplied in kits in euro pails.

HEALTH AND SAFETY: Refer to the Safety Data Sheet for the material.