TRIOCOAT ZINC 1900

Epoxy zinc-rich coating

MATERIAL DESCRIPTION: Two-component epoxy primer with a high zinc content.

COATING PURPOSE: For corrosion protection in the manufacture of metal structures and equipment for various functional purposes of industrial facilities, oil and gas sector facilities and infrastructure operated in atmospheres of corrosivity category up to C5 (GOST 34667.2 (ISO 12944-2)). A universal solution for severe operating conditions. The coating is resistant to spills of sea and fresh water, oil and petroleum products. Used as part of paint and coating systems. Operation of the coating at temperatures up to plus 150 °C is allowed. It can be used as a primer on galvanized surfaces.

PHYSICAL CHARACTERISTICS:

Color: Grey.

Volume solids: 63±5 %

Theoretical spreading rate: 0.095 l/m² at DFT 60 µm.

Coating thickness:

Film thickness	WFT, µm	DFT, µm
Minimum	64	40
Maximum	160	100

Drying time:

Drying time at DFT 60 µm	0 °C	5 °C	10 °C	15 °C	20 °C	25 °C	30 °C	35 °C
Surface temperature	0 °C	5 °C	10 °C	15 °C	20 °C	25 °C	30 °C	35 °C
Drying to touch	35 min	15 min	14 min	12 min	10 min	9 min	7 min	5 min
To apply the next coat — TRIOCOAT ZINC 1900	8 h	4 h	3 h	2.5 h	2 h	1.5 h	1 h	0.5 h

Drying time is determined by the actual DFT. The drying times given in this section are for guidance only. When assessing the actual drying time, it is also necessary to take into account the presence of air flows and relative air humidity.

If the coating is exposed to atmospheric conditions, there is a risk of formation of zinc salts on the surface, which must be removed before applying the next coat; otherwise, it may negatively affect intercoat adhesion.

In case of operation in marine, coastal or industrial conditions, it is recommended to apply the next coat no later than 7 days.

SURFACE PREPARATION: The material is applied to a prepared and dry metal surface with a temperature at least 3 °C above the dew point. 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 Sa 2.5 according to GOST R ISO 8501-1-2014 with a recommended roughness profile of 50–75 µm (during repair, local cleaning to grade P St 3 is allowed); 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.

APPLICATION:

Material preparation: The material is two-component; before application, the base and the hardener must be mixed separately. Mixing ratio 4 : 1 (base : hardener) by volume, with thorough stirring to a homogeneous mass.

Pot life: 10 h at plus 15 °C; 8 h at plus 20 °C; 4 h at plus 35 °C.

Application method: Airless spraying / Manual application.

Thinner: Thinner TRIOSOLV 0002 (if necessary), up to 5 % by volume for airless spraying. For more detailed information, contact O3-Coatings.

Nozzle diameter (recommended): .009"–.017"

Operating pressure (recommended): (120–160) bar.

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

Environmental parameters: Air temperature not lower than minus 10 °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.

RECOMMENDED SYSTEMS:

Previous coat: None.

Subsequent coat: TRIOCOAT MASTIC 4700. For more detailed information, contact O3-Coatings.

STORAGE:

18 months from the date of manufacture. It is recommended to store in a dry dark place in sealed factory packaging at a temperature from 0 to plus 30 °C, avoiding direct exposure to UV rays and other heat sources.

NOTE:

Small deviations of the numerical values of physical quantities are permissible.

TRANSPORT PACKAGING:

Base — 10 l euro pail; Hardener — 3 l euro pail.

HEALTH AND SAFETY:

Refer to the Safety Data Sheet for the material.