Technical Data Sheet

TRIOCOR TOP PRIMER 2100

Quick-drying primer-enamel

DESCRIPTION:

A one-pack quick-drying primer-enamel based on synthetic film forming substance

TYPE AND RECOMMENDED USE:

Primer-enamel is used for corrosion protection of metal structures, concrete structures, communications and equipment operated in moderate, moderately cold and cold climates and atmospheric corrosion activity from very low C1 to high C4 (ISO 12944-2). Primer-enamel is tolerant to surface preparation (the degree of preparation Sa 2, St 2 is allowed). It is applied and cured at temperatures from minus 25 °C. It can be used as a repair material, compatible with most types of old paint coatings. The operating temperature of the coating is from minus 60 ° C to plus 40 ° C.

PHYSICAL CONSTANTS:

Appearance of the coating, colour:

Matte, semi-matte coating. Tinting according to RAL

Volume solids:

42±5 %

Theoretical spreading rate:

0,200 kg/m^2, at DFT of 60 microns.

Film thickness:

Wet and dry film thickness table

Film thickness	WFT, microns	DFT, microns
Minimum	120	50
Maximum	190	80
Recommended	143	60

Drying times:

Drying times at DFT of 60 microns								
temperature of environment	**-25°C**	**-20°C**	**-10°C**	**0°C**	**5°C**	**10°C**	**20°C**	**30°C**
to recoat	48 h	36 h	18 h	9 h	6 h	2 h	1 h	30 min

The maximum recoating interval is unlimited.

The drying time of the coating at a temperature of (20 ± 2) ° C before transportation is possible is at least 12 hours. The time of complete curing of the coating at a temperature of (20 ± 2) ° C is at least 7 days.

The drying time is determined by the layer thickness actually applied. The drying time values given in this section are of a recommendatory nature. When assessing the actual values of the drying time, it is also necessary to take into account the presence of air flows and relative humidity.

SURFACE PREPARATION:

The material is applied to a pre-prepared surface. - Steel surface: The surface to be painted must be dry, clean and uniform with a temperature at least 3 °C above the dew point. A typical surface preparation scheme includes the elimination of metal surface defects to the degree of P2 according to ISO 8501-3 (at the same time, sharp edges and corners must be rounded with a radius of at least 2 mm), abrasive

blasting to the degree of Sa 2 according to ISO 8501-1 (local application of cleaning by hand or mechanical tools to the degree of St 2 is allowed), degreasing to the degree of 1 according to GOST 9.402, desalination (if necessary), roughness assessment (must correspond to the average (G) profile according to ISO 8503-1) and dedusting with compressed air of group 2 according to GOST 9.010 to a degree of no more than 2 with a particle size of no more than class 2 (according to ISO 8502-3). - Concrete surface: the surface to be painted must be dry, solid, durable, have no cracks, potholes, protruding fittings, sinks, surges, have the required roughness class, must be free from contamination – cement milk, dirt, dust, oil contamination. - Old compatible coatings: must be dry, free of foreign inclusions, dust, dirt, and have the appropriate roughness. A more detailed description of the preparation of surfaces of various types is given in the instructions for applying primer enamel.

APPLICATION DETAILS:

Material preparation: The material is one-pack, before application it is required to mix thoroughly for 5-7 minutes until a homogeneous state.

Application method: Airless spraying / pneumatic spraying / manual application

Thinner: TRIOSOLV 0002. Make the dilution in increments of 1 vol. %.
The recommended dilution value is:
- For airless spraying - (0-5) vol. % ;
- For pneumatic spraying - (0-15) vol. % ;
- For application with a brush or roller (strip painting, complex shape products, areas up to 1 m^2) - (0-5) vol. % .

Nozzle size (recommended):
- For airless spraying - .013” - .019”.
- For pneumatic spraying - (1,5 - 2,0) mm

Operating pressure (recommended):
- For airless spraying - (150-180) bar.
- For pneumatic spraying - (2,0-3,5) bar

Cleaning of tools: TRIOSOLV 0002.

Application conditions:
- Air temperature from plus 25 °C to plus 30 °C.
- Relative humidity no more than 80 %;
- Prepared surface should be dry, it’ temperature should be at least 3°C above the dew point.

In closed rooms it is necessary to provide supply-and-exhaust ventilation during application and drying to the extent necessary.

RECOMMENDED SYSTEMS: It is used as an independent coating, and also as an enamel for alkyd, alkyd-modified and acrylic primer layers., as well as compatible coatings of other types. For detailed information, contact «O3-Coatings».

STORAGE: 12 months from the date of manufacturing. Product should be stored in dry, dark space at temperatures between minus 40°C to plus 40°C in the original sealed packaging, away from heat and ignition sources, avoiding direct exposure to UV-rays and ingress of moisture.

ADDITIONAL NOTE: Small deviations of numerical values of physical quantities are acceptable.

PACKAGE:

	Container (net weight 20 kg).
HEALTH ANDSAFETY:	Refer to the Safety Data Sheet before use.