TRIOTOP FINISH 5720

Acrylic polyurethane coating

MATERIAL DESCRIPTION:

Two-component acrylic polyurethane enamel.

TYPE AND RECOMMENDED USE:

For use in the manufacture of agricultural lifting equipment, trailers and semi-trailers, modular buildings, external surfaces of tanks, steel structures, electrical and process equipment, in general industrial and transport engineering, providing resistance to corrosion, UV rays and mechanical damage.

It is a high-quality final (top) coating in the anti-corrosion protection system for metal surfaces. Used in combination with a wide range of epoxy and polyurethane-based primer coatings. Operation at operating temperatures up to plus 120 °C is allowed.

PHYSICAL CHARACTERISTICS:

Color: According to RAL catalogue.

Volume solids: 58±5 %

Coating gloss (at 60°): 6–10

Theoretical spreading rate: 0.103 l/m² at DFT 60 µm.

Coating thickness: Dry film thickness (DFT) for a single application (one coat) is typically (40–80) µm; thickness of the "non-sagging" coat: DFT = 100 µm.

Film thickness	WFT, µm	DFT, µm
Minimum	69	40
Recommended:	103	60
	138	80

Drying time of a one-coat coating:

Ambient temperature:	15 °C	25 °C	35 °C
Degree of drying, GOST 19007: degree 1	up to 20 minutes	up to 15 minutes	up to 10 minutes
degree 3	5 h	4 h	1 h
Full curing / start of operation	10 days	7 days	5 days

Accelerated drying:

- holding in air for 15 min;
- drying for 30 min at 60 °C;
- holding in air for 3 h.

The minimum curing period of the coating before the start of operation is 7 days. When assessing the actual drying time, it is also necessary to take into account the presence of air flows and relative air humidity.

SURFACE PREPARATION:

The material is applied to a previously prepared and primed 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 degreasing (if necessary;

recommended solvent — R4), desalting (if necessary) and dust removal of the primed surface. In case of exceeding the overcoating interval of the primed surface, it is necessary to carry out a set of measures to ensure the roughness of the primer surface.

APPLICATION:

Material preparation:

The material is two-component; it requires mixing the base and the hardener separately. Mixing in a ratio of 9 : 1 (base : hardener) by volume, with thorough stirring to a homogeneous mass. Before application, it is recommended to filter the ready-to-use enamel through a sieve with mesh 01 or 02 according to GOST 6613, or a similar sieve, or a synthetic fabric mesh (nylon, polyamide, polyester) with a nominal aperture size from 100 to 200 μm according to GOST 4403.

Pot life at 20 °C, not less than: 4 h

Application method:

The enamels are applied to the surfaces to be painted by pneumatic and airless spraying. A brush or roller (manual application methods) is used when painting small areas and during repair.

Application method	Working nominal viscosity (VZ-246, 4 mm), s	Amount of thinner, %	Pressure, atm	Nozzle diameter
Brush, roller	—	0.5	—	—
Pneumatic spraying	20–25	0–25	3–5	1.5–2.0 mm
Airless spraying	30–40	0–10	120–150	0.011–0.019 inch

Thinner: Thinner TRIOSOLV 0003.

Equipment cleaning: Thinner TRIOSOLV 0003, technical xylene.

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:

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

STORAGE:

For the base: 24 months from the date of manufacture; for the hardener: 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 0 to plus 30 °C, avoiding direct exposure to UV rays and other heat sources.

TRANSPORT PACKAGING:

Base — 20 l euro pail; Hardener — 3 l euro pail.

HEALTH AND SAFETY:

Refer to the Safety Data Sheet for the material.