ZINOTAN®

anticorrosive zinc-rich primer
(TU 2312-017-12288779-2003)

Quality management system
is certified according to ISO 9001

Description

ZINOTAN is a single-packed zinc-rich moisture curing polyurethane primer with a high content of non-volatile matter.

According to the metal zinc mass content, it meets the level 1, type II of SSPC Paint 20.

Recommended use

Anticorrosive protection of steel structures operated in the atmospheric conditions of all macroclimate areas, types of atmosphere and placement categories according to GOST 15150, in fresh and sea water, in aqueous solutions of salts, in oil and oil products.

ZINOTAN is used as:

- primer in systems with POLYTON-UR, FERROTAN and ALUMOTAN top coats, as well as with other polyurethane, vinyl-epoxy, and acrylic coatings;
- single coating system.

Certificates, approvals

Certificate of state registration No. RU.66.01.40.015.E.000010.01.11 dated 28.01.2011.

Declaration of conformity № РОСС RU Д-RU.АД37.В.35736/20 dated 05.10.2020.

Industrial and civil construction: GOST 9.401, guidance document Trest Gidromontazh (РД ГМ-02-18), ТІ 12288779.25173.00020 (SUE Concrete and Reinforced Concrete Research Institute of Moscow).

Transport construction: STO-01393674-007-2019 Central Scientific Research Institute of Transport Construction JSC; STO-12288779-001-2020 SC Avtodor; Technological Regulations ТР12288779.02073.00006 and ТР 12288779.02073.00007 (Central Scientific Research Institute of Transport Construction); "Technological guidelines for the metal structures of railway bridges painting" (Russian Railways JSC); Typical technological regulations 12288779.02073.00058 on the coloring of railway bridges (Russian Railways JSC),

Oil and Gas Industry: complies with the requirements of regulatory documents of companies Rosneft, Lukoil, Irkutsk Oil Company.

Lacquer Coating Research Institute, Khotkovo town; Melnikov Central Research and Design Institute of Steel Structures, Central Scientific Research Institute of Transport Construction, All-Union Pipeline Construction Scientific and Research Institute, Bashneft Research and Project Institute, Russian Research Institute for Natural Gases and Gas Technologies, Concrete and Reinforced Concrete Research Institute of Moscow, Scientific Research Institute of Energy Structures (RusHydro) Institute of Ecology and Evolution Problems RAS named after A.N. Severtsov (Russian-Vietnamese Research and Technology Center, Nyachang; SIC, Sochi; CIS, Severomorsk).

Technical data

Color and gloss of coating	Gray (the shade is not standardized) matte smooth coating
Dry film thickness, μm	60 - 100 recommended - 80
Theoretical spreading rate (to 80 μm), g/m^2	370
Adhesion (GOST 31149)	0 grade, not more than
Heat resistance in dry non-aggressive atmosphere	120 °C
Density, g/cm^3	2.75 - 2.90
Solids by mass, %	86.0 - 89.0
Solids by volume, %	62.0±3
Viscosity	tixotropic
Hiding power, g/m^2	175, not more than
Drying time to 3 degree (GOST 19007) at (20±2)°C and relative humidity (65±5)%, h	2, not more than

Surface preparation

- to degrease metal surface to 1 grade according to GOST 9.402;
- to do abrasive blast cleaning to 2 grade according to GOST 9.402 (Sa 2 ½ or Sa 2 ISO 8501-1) with roughening, recommended surface profile is Rz = 30-50 μm. For hot-rolled steel, power and hand tool cleaning up to 3 grade according to GOST 9.402 (St 3 or St 2 ISO 8501-1) is allowed.

Application on a smooth surface without roughening is not allowed;

- to remove dust.

Application

- mix thoroughly to homogenous condition before application;
- if necessary, the composition should be diluted to the working viscosity immediately before application.

It is recommended to apply the composition in 1-2 layers by airless, conventional (air) spray, roller, brush in the conditions of plant, construction site, at temperatures from minus 15 to plus 40 °C and relative air humidity from 30 to 98 %.

Application methods:

Airless spray

Recommended thinner	SOLV-UR® (TU 2319-032-12288779-2002), petroleum solvent
Quantity	up to 5% by mass
Nozzle diameter	0.015" - 0.021" (0.38 – 0.53 mm)
Pressure	15 - 25 MPa (150 - 250 bar)

Conventional (air) spray

Recommended thinner	SOLV-UR, petroleum solvent
Quantity	up to 5 % by mass
Nozzle diameter	1.8 - 2.2 mm
Pressure	0.3 - 0.4 MPa (3 - 4 bar)

Brush / roller

Recommended thinner	SOLV-UR, petroleum solvent
Quantity	up to 5% by mass

Equipment cleaning SOLV-UR, petroleum solvent, P-4, 647

When applying multi-layer coatings, each subsequent layer should be applied no earlier than after the previous layer has dried up "to touch dry" (slight touch on the coating does not leave a trace and does not give a feeling of stickiness). Avoid prolonged air contact of ZINOTAN in open containers.

The minimum overlapping interval of the ZINOTAN coating by FERROTAN, ALUMOTAN, POLYTON-UR top coats at (20±2)°C and relative air humidity (65±5)% is not less than 4 hours; maximum – no more than 2 years (with a coating thickness 80 µm).

Drying of the coating is natural. When the humidity of the air decreases, the drying time of the coating increases. If the relative air humidity is less than 30 %, in order to shorten the drying time (by 2-4 times), it is recommended to use a drying agent composition for polyurethane paint materials (TU 2359-047-12288779-2005) in agreeing with representatives of VMP.

In the process of work, in order to maintain the viability, it is recommended to reduce the time of its contact in the container with air (close the container during breaks in work); at the end of the work, pour a thin layer of SOLV-UR on the material remaining in the bucket. It is recommended to use ZINOTAN during one working shift.

The holding time of the coating before the start of operation in severe atmosphere is 7 days.

Storage and handling

ZINOTAN is supplied in 10, 3 and 0.5 litre metal containers.

Storage and transportation conditions of composition – according to GOST 9980.5 (at temperature from minus 40 to plus 40 °C). The container with composition shall be protected from atmospheric condensation and direct sunlight.

The shelf life of ZINOTAN in hermetically enclosed original container is 12 months starting with the manufacture date.

Precautions

When working with ZINOTAN, one shall observe the existing sectoral standard norms and requirements and safety measures as specified on the package label.

Personal protective equipment (goggles, face masks and respirators) shall be used, inhalation of thinners and contact of the composition or its components with skin, ocular mucosa, respiratory channels shall be avoided; use inside the premises is allowed only in case sufficient ventilation is provided.

ZINOTAN is classified as a fire-hazardous material.

The information is of general character, without consideration to the object specific nature and it is recommended to be read with the Operating Procedure. Use of materials for other purposes not specified here or in case other influencing factors are present shall be approved by the VMP Holding CJSC in writing. In case of absence of such approval the manufacturer is not held liable for the improper use of the material and the buyer falls from the right to present claims connected with the coating quality.

VMP RESEARCH & PRODUCTION HOLDING CJSC
Ekaterinburg +7 (343) 357-30-97; 385-66-10, office@fmp.ru
Moscow +7 (495) 411-65-03; 411-65-04, msk@fmp.ru
St. Petersburg +7 (812) 640-55-20; 676-20-20, spb@fmp.ru
For representation offices of the "VMP" in Russia and abroad: **vmp-holding.com**