ООО «Полимер Экспорт»
ПРОМЫШЛЕННЫЕ ЛАКОКРАСОЧНЫЕ ПОКРЫТИЯ
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Release date: 1.10.2024
Manufacturer: Russian Federation
ТУ 20.30.22-002-69372620-2020

Primer EPPEX Zn

CERTIFICATE

State Registration Certificate № RU.01.PA.02.008.E.000320.03.21 от 23.03.2021 г.
Declaration of Conformance РОСС RU Д-RU. PA01. B.09510/24 от 12.03.2024 г.
Enters the system СТО-01393674-007-2019 "Protection of metal structures of bridges from corrosion by painting".
MSDS №69372620-20-24550 от 17.10.2024 г.
MSDS № 69372620-20.30-3129 от 12.03.2021 г.

DESCRIPTION

Two component protective zinc-rich epoxy primer.

FIELDS OF APPLICATION

EPPEX Zn primer is a cold-dip galvanizing material combining low consumption and high level of ferrous metal structures protection. It can be used in various thicknesses from 15 to 120 microns. It can be used as a shop primer in a layer of 15-20 microns. It is used to protect against corrosion products and structures made of ferrous metals, operated in atmospheric conditions, in water-saline mist conditions, in vapors and aerosols of petroleum products environment.
It can be used both as an independent coating and as a primer layer in complex protection systems. When self-coating, it is used without a finishing layer when painting objects exposed to atmospheric conditions (atmospheric corrosion category C3). In anti-corrosion systems it is used as a primer layer in combination with EPPEX primer and/or with polyurethane two-component enamel Polytex.
Due to its properties, the primer is used to protect construction metal structures, bridges and hydraulic facilities, ports and ship structures, overpasses and platforms, surface and vessel equipment, various tanks, storage facilities, pipes and pipelines, oil and gas pipelines as well as in the construction of railway and, in particular, sea and river transport.
The primer coating does not prevent welding operations by spot welding or arc welding in an inert gas in the layer of 15-20 microns. The coating is resistant to sea and fresh waters, salts water solutions, oil and petroleum products.
Information on the material resistance to various media is available on request.
Main fields of application: transport construction, tank equipment, oil and gas industry, power engineering, mechanical engineering.

TECHNICAL DATA

Colour	Grey, tone is not specified	
Mass fraction of dry residue component A	75±3%	
Adhesion to metal (GOST 15140), no more	1 point	
Density component A	1,85±0,05 g/cm^3	
Density components A+B	1,65±0,05 g/cm^3	
Max. one layer thickness, viscosity 40 s	400 microns wet layer	
Dry volume residue	58±3%	
Dry film thickness and estimated consumption	Dry film thickness, microns	Estimated consumption, g/m^2
min	80	227
max	200	567
Hardener	Hardener EPPEX F	

INSTRUCTION FOR USE

Metal surface should be abrasive blasted to grade 1 due to GOST 9.402
(Sa 2,5 to ISO 8501-1:2007) with roughness, recommended blast profile is Rz=30÷50 mcm. Cleaned surface must be free of dust and grease. Application on a smooth surface without roughening is not allowed!

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CONDITIONS

Ambient temperature from +5°C to +35°C.
Relative air humidity no more 80%.

APPLICATION

Blending

The product is two components. Component A is a dispersion of pigments and anticorrosion filler in epoxy resin. Component B is a hardener solution. Mix the contents of the containers in the supplied proportions. After mixing, use within the specified pot life.

Mixing sequence:
The basis (component A) is mixed with a construction mixer. Then mixed hardener (component B) is added to the basis (component A) and thoroughly mixed with a construction mixer.
Attention! Careless mixing or incorrect ratio can lead to uneven curing and painting film properties weakening.

Minimum open time before coating materials are applied (at a temperature of (20+2) °C and relative humidity (65±5) %) is 1 hours (dry film thickness 100 mc).

Maximum open time before applying the coating layers is no more than 1 year. Open time of the coating before use in aggressive environments is at least 7 days.

Open time and cross linking depend on the film thickness, temperature, air humidity and ventilation.

Proportions

100:11 by weight
5:1 by volume

Pot life

4 hours

Air-free spraying

Thinning: 0-10%
Nozzle diameter: 0,017–0,021 mm
Initial pressure:120-180 atm

Air spraying

Thinning:5-20%
Nozzle diameter: 1,4-2,5 mm
Pressure: 2-2,5 atm

Cross linking

Wet-on-wet spraying only

Brush, roller

Can be recommended for small and hard-to-reach areas. Thin the primer depending on the working conditions when using brush.

Thinner

Formula thinner EPPEX

Cleaner

Formula thinner EPPEX, thinners of types P4, P5.

Finishing

Tubing, pistol and other spraying tools must be cleaned after using

Cleaning

Wash the tools after using immediately. The frequency of washing depends on the amount of sprayed material, the temperature and the time since the shutdown, including any time lag.

DRYING TIME

Surface temperature	+5°C	+10°C	+20°C	+30°C
Degree 1 (GOST 19007)	2,5 h	1,5 h	45 min	30 min
Degree 3 (GOST 19007)	4 h	2 h	1 h	45 min
Minimum recoating interval	4 h	2 h	1 h	45 min
Start of operation	20 h	14 d	7 d	7 d

Minimum recoating interval: the minimum recommended time the next coat to be applied.

Start of operation: the minimum time the coating to be exposed to a given environment.

These data should be considered only as indicative for a wet film thickness of 100 microns.

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PACKAGE SIZE	Metal euro bucket 21 l: basis 25 kg Metal bottle 3 l: hardener 2,7 kg
STORAGE	Store in a tightly closed container in a dry room at a temperature from -40 °C to +40 °C, away from sources of ignition, protecting from direct sunlight and moisture.
GUARANTED STORAGE LIFE	EPPEX Zn primer guaranteed shelf life is 6 months, EPPEX F hardener is 24 months from the date of manufacture, subject to the consumer's compliance with the rules of transportation and storage. After expire date shouldn't be used without tests.
HEALTH AND SAFETY	When painting work, use personal protective equipment (respirators, gloves, glasses, etc.). Work inside the room should be carried out with artificial (local, general) or natural ventilation. Use the primer only in places without sources of open fire and ignition. Avoid contact with skin or eyes. In case of skin contact immediately wipe with a rag or cotton swab, rinse thoroughly with soapy water, do not use solvents. In case of eyes contact rinse with clean water for at least 10 minutes, consult a doctor. In case of ingestion, consult a doctor.
RECYCLING	Packing materials are recycled as consumer waste.

Further Information.
The recommendations above are based on our own research and our best knowledge but don't fully guarantee any particular case as it depends on the quality, friability and porosity of the base. The local working conditions and methods may vary and are beyond our control. Therefore we cannot be held responsible for the actual work on the site.
The information is currently updating.