WG-PUREGALVANIC

TECHNICAL DATA SHEET

welesgard

PRODUCT DESCRIPTION

One-component, fast dying moisture-cure polyurethane anticorrosive zinc-rich primer.

FEATURE

Application:

- subzero application - cures down to -18°C;
- no dew point restrictions;
- tolerant to very high humidity up to 99%;

Provide:

- cathodic (galvanic), long-term protection of steel surfaces;
- containing >81% of zinc in the dry film by weight.

RECOMMENDED TO USE

Steel surfaces:

- for structures in medium, high, very high and extreme atmospheric corrosivity categories (C3, C4, C5 and CX - ISO-12944-2 / 2018);
- for structures immersed in fresh, sea or brackish water compatible with cathodic protection as well (Im1; Im2, Im3 and Im4 - ISO-12944-2 / 2018) alternating wetting area and penetration into the soil..

COMPATIBLE COATINGS

Depending on the operating conditions the material can be used with different types of coatings.

- Single pack, moisture cured polyurethane coatings (1pack PUR) of Welesgard.
- Two components epoxy (2pack EP) coatings of Welesgard.
- Two components polyurethane (2pack PUR) coatings of Welesgard.

For details, please contact Welesgard Technical Sales Support.

TECHNICAL DATA

Appearance	
Color:	Grey
Appearance:	Matt
Material properties	
Volume solids:	65 ± 2 %
Density (at +20 °C):	3.0 ± 0.05 g/cm^3
VOC value:	<250 g/l
Heat resistance: Wet exposure Dry exposure	 60 °C 160 °C

SURFACE PREPARATION

Surface	Minimum	Recommended
Surface Profile	Ry5 (30–75 мкм) (ISO 8503-1)	Ry5 (30–75 мкм) (ISO 8503-1)
Steel surfaces	Sa 2½ (ISO 8501-1)	Sa 2½ (ISO 8501-1)

AMBIENT CONDITIONS

Air temperature:	from -18 to +55 °C
Surface temperature:	from -18 to +55 °C
Relative humidity:*	30 – 99 %
Dew Point:	Not limited. Surface to be dry to touch

Note:

- Do not apply the material during rain or snow, or if precipitation is expected before the applied coating becomes dry to the touch.

- At a relative humidity below 30%, it is recommended to use the Welesgard Activator.

For details, please contact Welesgard Technical Sales Support.

THICKNESS & THEORETICAL SPREADING RATE

	Min.	Recommend	Max.
Dry Film Thickness:	80 µm	120 µm	220 µm
Wet Film Thickness:	123 µm	184 µm	338 µm
Spreading Rate:	8.1 m^2/l	5.4 m^2/l	3 m^2/l

Note: The practical consumption depends on the application conditions, the complexity of the painted structure, the surface roughness and the application method.

DRYING TIME

For DFT of 120 µm	-10°C	0 °C	5 °C	10 °C	25 °C	40 °C
Dry to touch	1 h	51 min	45 min	30 min	21 min	15 min
Recoat with itself or 1pack PUR, min / Dried to handle	27 h	16 h	11h30m	10 h	8h 30m	7 h
Cure for service	-	-	-	10 d	8 d	4 d

Note:
- Welesgard Activator may shorter drying time of the coating.
- Drying and curing time determined at controlled temperature and relative humidity (RH) 60 - 80%.
- As the relative humidity of the air decreases, the curing time of the coating increases.

For details, please contact Welesgard Technical Sales Support.

APPLICATION DATA

Stirring:
It is a single pack ready to use material. Prior to use, it must be thoroughly stirred with a low speed mixer, avoiding air entrapment. Constant stirring is not required.
Before opening and stirring the temperature of material must be at least 3°C above the dew point.

Thinning:
The addition of thinner is usually not necessary. If necessary WG-Welethinner CC can be added up to 10 % to the volume.

Note: If other than recommended thinners are used the manufacturer is not responsible for deterioration of coating quality.

Cleaning:
After work all equipment shall be cleaned with the thinner WG-Welethinner or WG-Welethinner CC.

For details, please contact Welesgard Technical Sales Support.

APPLICATION METHODS

Spraying:
Airless spray application is recommended. For other spraying methods, viscosity adjustment may be necessary.

Brush:
Recommended for stripe coat application or minor repair touch-up only.

Roller:
Prohibited to use roller for application of priming coat. Roller could be used to build up the dry film thickness.

PACKAGING

Volume (liters)	Size of containers (liters)
10	10

STORAGE & SHELF LIFE

The product must be stored in original sealed containers. The storage conditions are to keep the containers in a dry, well ventilated space away from source of heat and/or ignition.

Storage temperature:	**from 5 to 30 °C**
Shelf Life	18 months

Note: After lasting storage primer shall be stirred thoroughly until its precipitation is spread over the suspension homogeneously. Precipitation in primer does not change its properties or worsen its quality.

After the expiration date has passed, it is necessary to check the quality of the paint material.

SAFETY

Use with adequate ventilation. Do not inhale aerosol. Avoid contact with skin. After contact with skin, wash immediately with detergent, soap and water. In case of contact with eyes, rinse immediately with water and seek medical advice immediately.

For detailed information on the health and safety protection for use of this product, see Safety Data Sheet (SDS).

IMPORTANT NOTE

The above-mentioned information is given according to our laboratory tests and practical application experience.
The manufacturer takes into consideration the fact that the material can be used out of control; the manufacturer cannot give guarantees except of the material quality.
The manufacturer has the right to improve the product and change the above-mentioned data without preliminary notification.

THE PRESENT TECHNICAL DATA SHEET REPLACES ALL PREVIOUS EDITIONS.