

PRODUCT DESCRIPTION

One-component moisture-cured, heat-resistant, polysiloxane primer/top coating with aluminum powder pigment.

FEATURE

Application:

- at subzero temperatures down to -10°C;

Provides:

- low content of volatile organic compounds (VOC);
- permanent heat resistant up to 600°C;

RECOMMENDED TO USE

Steel and concrete surfaces:

- for structures in medium, high, very high and extreme atmospheric corrosivity categories (C3, C4, C5 and CX - ISO-12944-2 / 2018), but **is not recommended** for submerge areas.

Non-ferrous metals:

- as protective coating.

COMPATIBLE COATINGS

Depending on the operating conditions the material can be used with:

- Single pack, moisture-cured heat-resistant polysiloxane coatings such as WG-Thermaprime or WG-Termafinish;

For details, please contact Welesgard Technical Sales Support.

TECHNICAL DATA

Appearance	
Color:	Silver
Appearance:	Matt
Material properties	
Volume solids:	45 ± 2 %
Density (at +20 °C):	1.11 ± 0.05 g/cm ³
VOC value:	<335 g/l
Dry heat resistance (ASTM D2485) prolonged exposure short-term exposure	600 °C 700 °C

SURFACE PREPARATION

Surface type	Minimum	Recommended
Surface profile	Ry5 (30–75 µm) (ISO 8503-1)	Ry5 (30–75 µm) (ISO 8503-1)
Steel surfaces	St 3 (ISO 8501-1)	Sa 2½ (ISO 8501-1)
Surfaces of non-ferrous metals and stainless steel	Clean with alkaline solution, rinse with water. (SSPC-SP 1)	Light surface roughness ISO 8501-2, ISO 12944-4

AMBIENT CONDITIONS

Air temperature:	from -10 to +55 °C
Surface temperature:	from -10 to +55 °C
Relative humidity:	85 %
Dew Point:	at least 3°C higher than steel temperature

THICKNESS & THEORETICAL SPREADING RATE

	Min.	Max.
Dry Film Thickness:	25 µm	35 µm
Wet Film Thickness:	55 µm	78 µm
Spreading Rate:	18 m ² /l	12.9 m ² /l

Note: - Excessive dry film thickness (DFT) exceeding 40 µm will need more time for drying, and can cause weak adhesion, bubbling and cratering, solvent choking, and correction of defects may be required.

- Practical coverage depends on the application conditions, type of structure to be painted, roughness of the surface and application method.

DRYING TIME

For DFT of 100 µm	0 °C	5 °C ≥85%RH	10 °C ≥80%RH	25 °C ≥50%RH	40 °C ≥50%RH
Dry to touch	25 min	20 min	18 min	12 min	10 min
Dried to handle	2 h	1h 30m	1 h	40 min	30 min
Dry to recoat with itself, min	2 h	1h 45m	1h 15m	45 min	35 min
Dry to recoat with itself, max	30 d	24 d	21 d	15 d	10 d
Full curing (60% RH)	12 d	10 d	9 d	6 d	5 d

Note:

- As the relative humidity of the air decreases, the curing time of the coating increases.
- Maximum recoating interval is as per table above or after operation at the temperature of ≥ 200°C the surface shall be roughened before next layer application.
- Drying and curing time determined at controlled temperature and relative humidity (RH) less than 85%.

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 dew point.

Thinning:

The addition of thinner is usually not necessary. If necessary WG-Welethinner or 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

Spray application:

Airless spray is the main method of application. For other spraying methods, viscosity correction may be required.

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	12 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.