

PRODUCT DESCRIPTION

Single pack polyurethane, moisture curing coating.

FEATURE

- Single pack materials avoid mistakes with mixing components.
- Has excellent resistance to UV and colour stability.
- Has excellent resistance to atmospheric influence and abrasion.
- No restrictions on the dew point.
- Could be applied at high relative humidity up to 99% and subzero temperatures down to -18°C.
- Could be applied over different type of coating systems

RECOMMENDED TO USE

Recommended as a finish color coat in systems requiring strong high-quality semi-gloss atmosphere resistant surface coating.

It is used in anti-corrosion coating systems in conjunction with moisture curable polyurethane primer of Welesgard for long-term protection (up to 25 years) steel surfaces exposed to conditions of medium, high and very high atmospheric corrosion categories (C3, C4, C5-I and C5-M - ISO -12944-2), as well as in all areas of immersion in water or sea water (Im1 and Im2 - ISO-12944-2) underwater area, alternating wetting areas and splash zone.

COMPATIBLE COATINGS

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

Primer:

- WG-Ferrogalvanic SP,
- WG-Puregalvanic,
- WG-Ferrogalvanic

Primer on aluminum & galvanized surfaces:

- WG-Welestone

Primer on concrete:

- WG-Weleflex Sealer

Intermediate coat:

- WG-Weleflex, WG-Weletank

For details, please contact Welesgard Technical Sales Support.

TECHNICAL DATA

Appearance	
Color:	RAL and other colours
Appearance:	Semi-gloss coating
Material properties	
Volume solids:	70 ± 2 %
Density (at +20 °C):	1.5 ± 0.05 g/cm ³
VOC value:	<340 g/l
Dry heat resistance (ASTM D2485) prolonged exposure short-term exposure	145 °C 175 °C
Impact Resistance: (ASTM 2794)	>5 J

SURFACE PREPARATION

Preliminary surface preparation:

All solid contamination that could prevent adhesion should be removed from the surfaces. Remove salts and other water soluble contamination by wet cleaning with brush, high pressure-, steam- or alkali cleaning.

Remove grease and oils by alkali-, emulsion- or solvent cleaning (ISO 8504-3, ISO 12944-4). After cleaning with detergents, rinse thoroughly with water.

AMBIENT CONDITIONS

Air temperature:	from -18 to +55 °C
Surface temperature:	from -18 to +55 °C
Paint Material temperature:	+15 °C
Relative humidity:*	99 %
Dew Point:	Not limited surface is dry to touch

Note:

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

THICKNESS & THEORETICAL SPREADING RATE

	Min.	Recommend	Max.
Dry Film Thickness:	40 µm	60 µm	80 µm
Wet Film Thickness:	57 µm	86 µm	114 µm
Spreading Rate:	17.5 m ² /l	11.6 m ² /l	8.75 m ² /l

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

DRYING TIME

For DFT of 50 µm	-18°C 70%RH	-10°C 70%RH	0°C 70%RH	10°C 70%RH	23°C 70%RH	40°C 70%RH
Dry to touch:	9 h	7 h	2 h	2 h	1.5 h	1 h
Dried to recoat:	50 h	38 h	12 h	9 h	7 h	5 h
Full curing:	n/d	n/d	n/d	10 d	7 d	5 d

Note:

- As the relative humidity of the air decreases, the curing time of the coating increases.
- There is no maximum overcoating interval.

APPLICATION DATA

Stirring:

It's a single pack material, which shall be stirred thoroughly before application with mechanical mixer in order to achieve its fully homogeneous condition. Before opening and stirring the temperature of material must be at least 3°C above dew point.

Activator addition:

Up to 10% by volume of WG-Activator TC (Top Coat) must be added to achieve the best paint properties.

Cleaning:

After work all equipment shall be cleaned with the thinner WG-Welethinner or WG-Welethinner CC. In case the above-mentioned thinner are not available the following solution can be used: xylene; MEK; mixture of xylene and MEK (1:1 ratio).

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

Airless application recommendations:

Pressure	17 - 20 MPa
Nozzle orifice	0.013-0.021"
Spray angle	Depended on painting structure
Filter	To provide filter cleanliness. Filter Size – 60 mesh (250 µm).

APPLICATION METHODS

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.

Note: In case the application gets interrupted (e.g. bad weather condition) or is slow, pour 100 - 200 ml of thinner on top and close the can tightly. This will prevent diffusion of moisture into the paint.

PACKAGING

Volume (liters)	Size of containers (liters)
10/12	10/12

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

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. Eyes rinse with water immediately and call a doctor.

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.