

### PRODUCT DESCRIPTION

Is a fast drying, flexible polyurethane coating with an aliphatic isocyanate curing agent.

### FEATURE

- High-solid and contains rust preventing pigments.
- Has good impact resistance and it can be piled after a short drying time.
- Withstands sunlight and UV radiation.
- Complies with EN 1504-2.

### RECOMMENDED TO USE

Recommended to use as a single coat or as topcoat in:

- atmospheric corrosivity classes C2 and C3, could be used as a single coat system on easily painted steel products such as doors, gas bottles, hand rails, etc.;
- environment classes C2-C4 and C5-I/C5-M, could be used as topcoat on various primers;
- maintenance painting over old paint surfaces;
- floor coating on concrete and steel surfaces;
- It is very suitable for wood, plywood, boards etc.

### COMPATIBLE COATINGS

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

#### Primer on steel surfaces:

- WG-WELEFORCE ZINC
- WG-WELEFORCE FD
- WG-WELEFORCE PRIMER
- Epoxy coating WELEFORCE series

#### Primer on concrete:

- WG-WELEFORCE SEALER
- WG-SULACOVER 2K

#### Top coat:

- WG-SULACOVER 2K;
- WG-SULACOVER LQ.

(For details please contact the Welesgard Technical Sales Support).

### TECHNICAL DATA

Appearance	
Color:	RAL
Appearance:	Semi-Gloss coating
Material properties	
Volume solids (mixed):	65% ± 2%
Total mass of solids:	890 g/l
VOC value:	310 g/l
Dry heat resistance (ASTM D2485):	120°C

**Note:** If it necessary to have gloss appearance Sulacover 2K LQ – lacquer, could apply on top.

### SURFACE PREPARATION

All solid contamination that could prevent adhesion should be removed from the old 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). The surfaces should be rinsed carefully with fresh water after cleaning. Old, painted surfaces, in which maximum overcoating interval has expired, additional roughening with suitable method is recommended.

#### Steel surfaces:

Blast cleaning to min Sa 2½ (ISO 8501-1, ISO 8504-2).

Cold rolled plates must be roughened with abrasive paper.

#### Surface profile:

The surface profile must conform to "fine" or "medium" according to ISO 8503-1 (30-75 microns Ry5).

**Shop primed steel surfaces:**

Damaged or corroded surfaces should be blast cleaned to a grade of Sa 2½ (ISO 8501-2, ISO 12944-4).

**Aluminium surfaces:**

Remove grease and other contaminants. Sand sweeping before painting improves adhesion. WG-Sulacover 2K does not adhere to marine aluminium without primer.

**Galvanized surfaces:**

Remove grease, oil and dirt with alkali-, emulsion- or solvent cleaning (EN ISO 12944-4). Hot dip galvanized steel surfaces are to be thoroughly sweep blast cleaned with fine abrasive. Galvanized thin steel plates should be washed with a 5 % ammonia solution followed by fresh water hosing. All galvanized and hot dip galvanized steel surfaces should be roughened and primed with WG-Weleforce Primer.

**New concrete surface:**

The concrete must be dry and at least 4 weeks old, and humidity no more than 97 % (4 % by weight). The floor humidity can be tested if a humidity gauge is not available by using a rubber mat. The color of the floor under the rubber mat must not be darker than the rest of the floor after a 24 hour test. The concrete must be hard and strong enough (at least 80% of the final strength) and additives such as melamine resins, silicones or silicates that might decrease the adhesion or absorption of the coating must not be used. Loose concrete, laitance, residues of plastic dispersions and waxes should be removed from the concrete surface with abrasive blasting or grinding. If required a 15-20 % hydrochloric acid solution could be used.

**Previously painted epoxy coating:**

Grease and oil should be removed by emulsion cleaning. Surfaces should be roughened down by grinding. Holes and cracks must be filled with epoxy filler.

**Old concrete surface:**

Grease and other dirt to be removed from uncoated surfaces by emulsion cleaning. Grease removing could be made more effective by flame cleaning. An old coating or laitance should be removed by sand blasting, milling or grinding. Holes and cracks must be filled with epoxy filler. Other methods are similar to "New concrete surfaces".

**Asphalt surface:**

Asphalt should be over 6 months old, dry and clean.

**AMBIENT  
CONDITIONS**

<b>Ambient air temperature:</b>	from +5 to +50°C
<b>Surface temperature:</b>	from +5 to +50°C
<b>Paint Material temperature:</b>	+5°C
<b>Relative humidity, below:</b>	80%
<b>Dew Point</b>	at least 3°C higher than steel temperature

**THICKNESS &  
THEORETICAL  
SPREADING RATE**

	Min.	Med.	Max.
<b>Dry Film Thickness:</b>	60 µm	120 µm	150 µm
<b>Wet Film Thickness:</b>	90 µm	185 µm	230 µm
<b>Spreading Rate:</b>	11.1 m <sup>2</sup> /l	5.4 m <sup>2</sup> /l	4.3 m <sup>2</sup> /l

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

**Practical coverage on concrete surfaces:**

Priming	Top coating
4-7 m <sup>2</sup> /l	4-9 m <sup>2</sup> /l

Depends on method of application and the porosity of the surface. For exceptionally porous surfaces priming twice is recommended.

**DRYING TIME**

(Dry Film Thickness 80 µ)	23°C
Dry to touch	1.5 h
Dry to handle	3 h
Min. overcoating interval	3 h
Full curing	7 d

<sup>1</sup> Drying times and polymerization depend from the relative humidity, temperature, ventilation conditions and the thickness of the film.

(For details please contact the Welesgard Technical Sales Support).

**APPLICATION DATA**

**Mixing ratio: 4:1**

Resin	4 parts by volume
Curing Agent	1 part by volume

Stir resin and curing agent separately (slow stirring) and then mix both components thoroughly with propeller stirrer. Before use, packaging material and the temperature should not be less than 3 ° C higher than the dew point.

**Add thinner only after both components have been thoroughly mixed and stir the mixture.**

**Thinning:**

If needed 5-15 % thinner WT-021, or WT-011, or WT-022 (slow) may be added.

**Thinner for Roller:**

Thinner **WT-023** (especially design for roller application only)

**Cleaner:**

WT-011

**Pot life (+23 °C):**

Approx. 1 hour after mixing

**Additional information for application:**

**Priming (concrete surfaces):**

Thinned paint should be spread on the floor with a steel spreader, mohair roller or paint brush. If absorption is insufficient, it can be improved after 8 hours (+23 °C). On a porous or new concrete surface the priming is performed with WG-Weleforce Sealer.

**Top coating (concrete surfaces)**

The application of the coating is recommended to make within 8 h – 3 days after priming (+23 °C). The top coating is applied with 5-10 % thinned Sulacover 2K should be spread with a fine mohair roller, roller or a paint brush.

**Top coating (glossy finish)**

If it's necessary to have glossy finish of Top coat apply WG-Sulacover LQ.

Use an airless spray, electrostatic spray, brush or roller.

**Airless application recommendations:**

Pressure	17-20 MPa
Nozzle orifice	0,011-0,015"
Spray angle	Depended on object
Filter	60 mesh (250 microns) To ensure that filters are clean

**Note:** Don't use an adjustable spraying nozzle.

**Air spray**

It is not recommended.

**APPLICATION METHODS**

**Brush:**

Recommended for touch-up, stripe coating and small areas only. It is necessary to provide a nominal coating thickness.

**Roller:**

Could be used for repair or minor touch-up work.

Use roller on concrete surfaces. When using a roller, use thinner WT-023 up to 5-10 %.

**PACKAGING**

	Volume (litres)	Size of containers (litres)
Comp. A	8/16	10/20
Comp. B	2/4	2.5/4.2

**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 ignition.

Storage temperature:	from 5 to 30°C
Component "A"	2 years
Component "B"	1.5 years

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

**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.

***THE PRESENT TECHNICAL DATA SHEET REPLACES ALL PREVIOUS EDITIONS.***