

PRODUCT DESCRIPTION

Two-component priming lacquer to concrete surfaces, based on epoxy resin.

FEATURE

- Epoxy priming lacquer for damp surface.
- Sealer has high penetration ability provides high coating bond strength to the substrate.
- Designed to impregnate and seal the top layer of concrete and other porous substrates.
- Applied once, Weleforce Sealer is suitable as a dust binder, applied twice, as a concrete lacquer and when applied three times, as humidity prevention.
- In compliance with European Standard EN 1504-2:2004 "Surface protection products - Coating".

RECOMMENDED TO USE

Recommended to use as a primer sealer coat for protection systems on:

- newly laid concrete as a liquid membrane to make the curing of the concrete as good as possible by preventing the evaporation of water;
- both old and new concrete floors, concrete elements, concrete walls and basins under epoxy coatings;
- can also be over coated with polyurethane paints.

COMPATIBLE COATINGS

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

Primer:

- WG-WELEFORCE SEALER

Top coat:

- Epoxy coating WELEFORCE series and two-component polyurethane coatings WG-Sulacover series.
- Could be over coated with one component moisture curing coating (MCC).

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

TECHNICAL DATA

Appearance	
Color:	Yellowish
Appearance:	Gloss coating
Material properties	
Volume solids (mixed):	100% ± 2%
Total mass of solids:	1100 g/l
VOC value:	0 g/l
Abrasion resistance EN 1504-2	Weight loss < 3000 mg
Capillary absorption and permeability to water EN 1504-2	$w < 0,1 \text{ kg/m}^2 \cdot \text{h}^{0,5}$
Impact resistance EN 1504-2	Class II: $\geq 10 \text{ Nm}$
Adhesion strength by pull-off test EN 1504-2	$\geq 2,0 \text{ N/mm}^2$

SURFACE PREPARATION

New concrete surfaces

The surface that is to be coated must be hard and strong enough (the surface should have reached at least 80 % of its final strength) and additives such as melamine resins, silicones or silicates that might decrease the adhesion or absorption of the primer, must not be used. Loose concrete, laitance, residues of plastic dispersions and waxes should be removed from the concrete surface after it has been allowed to cure 1-2 days. Suitable methods are grit or sand blasting, grinding and/or acid solution wash (20 % hydrochloric solution). After an acid solution wash the surface should be rinsed with fresh water.

An acid solution wash is not recommended if the surface will be exposed to heavy chemical stresses, immersion service or with floating concrete.

Old concrete surfaces

Old paint and coatings should be removed by grinding or grit or sand blasting. Surfaces that are contaminated by oils and fats should in addition be flame cleaned. Any possible laitance should be removed as for new concrete surfaces.

Concrete curing with WG-Weleforce Sealer

The application of WG-Weleforce Sealer can take place as soon as the concrete has dried so much that a water film no longer exists on the surface. Possible laitance should be removed by brushing or by light grinding. On vertical surfaces any molding forms should be taken off within 3 days. Burrs and spills should be removed before applying the primer. If needed moisturize with water.

AMBIENT CONDITIONS

Ambient air temperature:	from +5 to +32°C
Surface temperature:	from +5 to +32°C
Paint Material temperature:	+5°C
Relative humidity, below:	80%
Dew Point	at least 3°C higher than steel temperature

THICKNESS & THEORETICAL SPREADING RATE

Recommended spreading rate should be kept around 3-8 m²/l

Consumption when applied by roller - 0.2-0.35 kg/m² (consumption depends on the porosity of the base).

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

DRYING TIME

	15°C	23°C
Dry to touch	7 h	5 h
Dried to walk on	24 h	20 h
Min. recoating interval	8 h	6 h
Max. recoating interval	30 h	24 h
Full curing	10 d	7 d

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

² If maximum recoat time is exceeded, it is necessary to make surface roughness with abrasive, rinse with clean water to remove dirt and allow drying.

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

APPLICATION DATA**Mixing ratio: 2:1**

Resin	2 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 it's necessary the thinner **WT-031** or **WT-011** from 10 to 35% by volume could be added.

Note:

¹ Adding a thinner will increase the drying time.

² In the case of using thinner other than recommended, the manufacturer not takes responsibility for any possible reduction in the quality of the coating!

Cleaner:

WT- 011

Pot life (+23 °C):

Note! The pot life of the mixture is approx. **40 min.** Do not combine different mixed solution with each other.

APPLICATION METHODS

Airless or conventional spray methods, mohair roller or brush could be used. For different spraying methods, viscosity adjustment may be necessary.

Airless application recommendations:

Pressure	17-20 MPa
Nozzle orifice	0,013-0,021"
Spray angle	Depended on object
Filter	60 mesh (250 microns) To ensure that filters are clean

Brush & Roller:

It is necessary to provide a nominal coating thickness.

PACKAGING

	Volume (litres)	Size of containers (litres)
Comp. A	6	10
Comp. B	3	3

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"	1 years
Component "B"	2 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.