

PRODUCT DESCRIPTION

Single pack, moisture-cured, polyurethane deep penetrating impregnating primer.

FEATURE

Application:

- at subzero temperatures down to -10°C;
- at high relative humidity up to 99%;
- with no dew point restrictions;

Provides:

- high penetration ability;
- provides high strength of the coating to the substrate;
- no restriction on the maximum recoating interval.

RECOMMENDED TO USE

Concrete surfaces:

- as an impregnating primer-adhesive coating when applying elastomeric polyurethane insulation coatings based on polyurea, also for floors and walls of concrete and masonry structures;
- in the industry;
- objects of civil construction.

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.
- Single pack, alkyd-acrylic coatings (1pack AK/AY) of Welesgard.
- Two-component polyurethane coatings (2pack PUR) of Welesgard.

For details, please contact Welesgard Technical Sales Support.

TECHNICAL DATA

Appearance	
Color:	Transparent
Appearance:	Matt
Material properties	
Volume solids:	51 ± 2 %
Density (at +20 °C):	1.0 ± 0.03 g/cm ³
VOC value:	420 g/l
Conventional viscosity of B3-246 (at + 20 ° C), the nozzle diameter of 4 mm:	15 ± 3 sec
Adhesion to concrete:	Not less than 2.5 MPa

SURFACE PREPARATION

Surface type	Minimum	Recommended
Concrete surface	SSPC-SP 13/NACE No. 6	SSPC-SP 13/NACE No. 6

AMBIENT CONDITIONS

Air temperature:	from -10 to +55 °C
Surface temperature:	from -10 to +55 °C
Relative humidity:*	30 – 99 %
Dew Point:	Not limited surface is dry to touch

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

For details, please contact Welesgard Technical Sales Support.

THICKNESS & THEORETICAL SPREADING RATE

Recommended theoretical material consumption on a smooth solid surface:
 0,1 ltr /m² - moisture curing systems one component polyurethane coatings.
 0,3 ltr/m² - for thick insulating coatings.

Consumption table	For 1pack PUR	Insulation
Consumption (ltr /m ²)	0,1 ltr/m ²	0,3 ltr/m ²
Consumption (kg /m ²)	0.102 kg/m ²	0.306 kg/m ²
Dry Film Thickness (DFT):	49 µm	147 µm
Wet Film Thickness (WFT):	100 µm	300 µm
Theoretical Spreading Rate (TSR):	10 m ² /ltr	3.3 m ² /ltr

Note:

- The conversion flow table includes only theoretical data.
- Practical coverage depends on the application conditions, type of structure to be painted, roughness of the surface and application method.
- Qualitatively primed substrate should have a uniform matte shine. Less impregnated places should be primed again.

DRYING TIME

For DFT of 0,1 l/m ²	-10 °C	0 °C	5 °C	10 °C	25 °C	40 °C
Dry to touch	3h 30m	2h 20m	2 h	1h 30m	1h	42 min
Dry to recoat with 1pack PUR, min / Dry to handle	28 h	14 h	9h 30m	7 h	3 h	2 h
Cure for service	-	-	-	10 d	8 d	4 d

Note: - There is no maximum overcoating interval.

- Drying and curing time determined at controlled temperature and relative humidity (RH) 60 - 80%.
- Drying time is influenced by Relative Humidity, temperature, ventilation conditions and film thickness.

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:

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

Cleaning:

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

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:

Recommended to use nylon or wool roller.

APPLICATION METHODS**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.