

## UR-01 2K PU PRIMER

### Product Description

Two-component polyurethane primer. Contains zinc-phosphate anti-corrosive pigments, providing long term protection and excellent durability.

### Use

For corrosion protection of both new and repaired old ferrous metal surfaces. Protecting of metal structures, railings, fences, reservoirs, agricultural machinery, machines and other, suitable for use in indoor and outdoor.

### Properties

Anti-corrosion protection  
Good leveling  
High hardness

### Color

Grey, Oxide Red, Black  
Gloss level: Mat

### Technical properties

| Technical properties  | Test method        | Values                   |
|-----------------------|--------------------|--------------------------|
| Solid content(volume) |                    | 47-50%                   |
| Density               | BNS EN ISO 2811-1  | 1.4-1.6g/cm <sup>3</sup> |
| Flash point           | ISO 2719:2016      | 33°C                     |
| VOC content           | EN ISO11890-1:2008 | 490g/l                   |

### Recommended thickness of layer

|                         |                                                 |
|-------------------------|-------------------------------------------------|
| Dry film                | 45 - 50µm                                       |
| Wet film                | 90 - 100µm                                      |
| Theoretical consumption | 6.5-7m <sup>2</sup> /kg, 10-11m <sup>2</sup> /l |

Losses during application depend on the type of the coated object, the surface preparation and the equipment used. They must be calculated separately.

Maximum film thickness per layer 280µm WFT, applied with airless

### Substrates & Surface preparation

To achieve maximum adhesion and durability of the system, the surface preparation must comply with the following requirements:

| Surface               | Minimum                                                                                       | Recommended                                                                              |
|-----------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| <b>Ferrous metals</b> | Rust cleaning with sandblasting or blasting, up to Grade St2, according to ISO 8501-1         | Rust cleaning with sandblasting or blasting, up to Grade Sa 2 ½, according to ISO 8501-1 |
|                       | Cleaning, drying and no visible surface injuries according to ISO 12944-4, ISO 8501, ISO 8504 |                                                                                          |

Ensure surfaces to be coated are clean, dry and free from all surface contamination.

### Application equipment and Application Conditions

Conventional Spray; Airless spray  
Ambient temperature from 10 to 30°C  
Humidity of the environment , max 65%  
Substrate temperature must be at least 3°C above the dew point

### Information on nozzles and pressure for machine application

Conventional Spray nozzle - 1.8mm; pressure - 3-4atm;  
Airless nozzle - 0.011-0.013; pressure - 180-200bar;

### Mixing

by weight 1000g UR-01 is mixed with 120g hardener UR-50

**Pot life of the mixture:** The prepared mixture should be used within 3 hours at ( t=20°C ).

### Thinning and cleaning of tools:

|                |                          |
|----------------|--------------------------|
| Air spraying - | up to 8% with Thinner UR |
| Airless -      | 4-8% with Thinner UR     |

### Curing Schedule

|                     |     |      |      |
|---------------------|-----|------|------|
| Ambient Temperature | 5°C | 10°C | 23°C |
| Touch dry           | 6h  | 2-4h | 1h   |
| Fully dried         |     |      | 4 h  |

The times mentioned in the above table are measured in a laboratory environment at a controlled temperature and air humidity. Depending on different application environments these values may vary.

At ambient temperatures above 15 °C, the overlap with finishing coatings is performed up to one - two hours after applying the primer or after it is completely dry.

In cases of application at lower temperatures, the overlap with a finishing layer should be done after the full drying of the primer.

### Product compatability

Depending on the specific need and the expected result, this product can be used in a system with different finishing coatings, e.g. UR-01 + UR-11; UR-01 + 1K (E 5001; Industrial FD enamel).

For other types of coatings or special requirements, please contact Policolor-Orgachim technical team.

### Packaging

|                | net weight | volume |
|----------------|------------|--------|
| Metal package  | 25kg       |        |
| Hardener UR-50 | 1kg        |        |

Depending on the color of the product and the individual requirement of the customer, the packages may vary.

### Storage

The product should be stored in closed, dry and fire-proof warehouses and premises at a temperature of not more than 30°C. Do not expose to direct sunlight. Keep out of reach of children!

### Shelf life:

18 months from production date in factory-sealed package.

### Safety

According to safety data sheet (MSDS).

This Technical Data Sheet is intended to inform Customers of the product concerned. Policolor-Orgachim invites customers to check the quality of the product and carry out trial application before use, to use the product properly, to comply with the application conditions in accordance with the label instructions and technical parameters. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the Technical Data Sheet for this product. Due to the lack of control over the conditions and manner of application, the manufacturer does not guarantee/without prior written confirmation/ its durability or any direct or indirect consequential damages caused or related to the way the product is used or laid, in case the product is used for purposes other than the purpose indicated on the label and in this technical data sheet; We guarantee the properties and qualities of the product insofar as this product is not exposed to external factors and impacts that could not be foreseen by us and could not be taken into account in the preparation of this Technical Data Sheet. Policolor-Orgachim will not accept any liability in the above cases unless consent has been given explicitly. Liability is imposed by legal provisions or arising from commercial obligations. As the information contained in this Technical Data Sheet is subject to periodic changes, please make sure, via our web sites or technical team, that this description is the latest and has not been replaced by a new version.

