

**TECHNICAL DATA SHEET**

**Item number:** 0502-152-XXX0

**Product name:** POLYURETHANE PRIMER-TOPCOAT 10+1

**ALMAPUR PROTECT 10+1**

**Description of the product:** Two-component general use polyurethane primer-top coat cured with aliphatic isocyanate. It contains active anti-corrosive pigments. The product provides high quality eggshell coating of high hardness resistant to abrasion, chalking and weather conditions.

**CERTIFICATE** of the Medical University of Gdańsk issued by the Division of Environmental Toxicology - hygienic certificate No. 89/322/98/2016

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**ADVANTAGES**

- superb resistance to weather conditions and abrasion
- quick drying
- good mechanical resistance
- coating of high quality decorative effect – no yellowing, no chalking
- resistant to splashing with oils and low-aggressive chemicals

**RECOMMENDED USE**

It is recommended as a protection on zinc, aluminum or steel surfaces that are subject to weather conditions and aggressive chemicals. To be used as a topcoat on farming equipment, construction machines as well as the upper parts of water equipment, steel structures, metal elements – wherever a high resistance to mechanical, chemical or weather factors is required.

**TECHNICAL PROPERTIES**

• Density, ( $\pm 0,1$ ) kg/dm <sup>3</sup>	1,3
• Recommended thickness of one coat/layer, $\mu\text{m}$ .	80/120
• Drying time (at 20°C): 1 degree (dust free), min	15
•                                   3 degree (dry-to-touch), min	60
•                                   6 degree, min	90
• Pot life at 20 °C, h	2
• Full cure at 20 °C, days	7
• Theoretical coverage at film thickness 80 $\mu\text{m}$ dm <sup>3</sup> /m <sup>2</sup>	0,15
• Solids ( $\pm 2$ ), % by volume	55
• VOC in a ready-to-use product, g/l	420-450
• Recommended number of layers	1-2

**GLOSS:** eggshell

**COLOUR:** selected colours according to the RAL color scheme or according to the customer's individual pattern



## PRODUCT APPLICATION

**PREPARATION OF THE MIXTURE** – precisely mix part I with part II – (Part II item number – 0504-100-0000)

in the following ratio:	by volume	by weight:
▲ part I	100	100
▲ part II	10	8

Amount of thinner 8002: 0-3% by volume.

After 15 minutes (at 20°) the product is ready-to-use.

### Application methods:

- airless spraying:  $\varnothing 0.33 \div 0.38$ ; pressure  $100 \div 180$  bar; air guard 2 bar
- brush
- pneumatic spray (after dilution to a viscosity of 50-60s according to DIN $\varnothing 4$  cup) nozzle  $1.8 \div 2.2$  mm, pressure  $2 \div 4$  bar; distance 15-20cm

## APPLICATION

**Surface** – the higher degree of surface cleanness the longer period of paint durability. The coating achieves the highest chemical and mechanical resistance when applied directly on steel that was sand-blasted or shot-blasted to at least Sa 2 ½ \* cleanness degree.

- Steel surface must be dry, free from any contaminants, degreased – cleaned to at least Sa 2\* cleanness degree for immersed surfaces or at least St 3\* cleanness degree for exterior surfaces.
- Aluminum surface must be dry, degreased and matted with non-woven abrasive fabric
- Remove zinc corrosion products (white rust) and other contaminants from the surface of weathered galvanized steel. Remove contamination with hot water, pressurized water, steam or abrasive sweeping.

\* Additional information on surface preparation can be found in ISO 12944-4 and ISO 8501-2.

### ADDITIONAL INFORMATION

The minimum thickness of ALMAPUR PROTECT 10 + 1 must not be less than 120 $\mu$ m to ensure the C3 corrosivity class and L durability of the steel substrate.

### Painting and curing conditions

- surface temperature above 0°C (free from ice and frost)
- surface temperature above dew point (omitting condensation)
- relative humidity up to 80%
- good ventilation



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**SHELF LIFE:** 12 months from the production date in original unsealed container.

The above information cannot be considered complete or comprehensive. This information is based on laboratory research and practical experience and is to the best of our knowledge. As a manufacturer, we are not able to monitor the conditions in which the product is used, as well as many factors affecting the final effect of its use. We are not responsible for any damage caused by using the product in a manner inconsistent with the recommendations or for inappropriate purposes. We reserve the right to change the instructions without prior notice.

**WARNING!** This product is designed for professional use in the given industry. Detailed information regarding product safety can be found in the MSDS.