

POLYAC® 15

VERY FAST CURING METAL PRIMER FOR PMMA BASED POLYAC® SYSTEMS



DESCRIPTION

POLYAC® 15 is a very fast curing, corrosion-resistant, based on solvent soluble acrylic resins, with high-quality anti-corrosion pigments for the POLYAC® systems, to be applied on metal surfaces.

BENEFITS

- Easy to apply
- 1-component
- Good anti-corrosion properties
- Optimal viscosity
- Quick dry, fast curing
- Can be applied manually and by spraying
- Can be applied inside and outside
- Can be applied horizontally, vertically and overhead

FIELD OF APPLICATION

POLYAC® 15 is an air-drying, 1-component primer for steel, galvanized steel and non-ferrous metal with fast drying and excellent adhesion.

APPLICATION

Note: The following is a typical application description. In case of other jobsite parameters, please contact our technical department.

PRELIMINARY ANALYSES

Before starting the substrate preparation and applying the products, it is important to test various parameters in order to achieve a good and sustainable result.

Compressive strength of the substrate: min. 25 N/mm²

Tensile strength of the substrate: min. 1.5 N/mm²

Conditions during the application and curing: see "Application conditions" further described in this technical data sheet.

Technically studied dilatation joints must be provided. These are resumed in the synthetic resin system to be installed.

The flatness of the surface must be consistent with the desired requirements. Should this not be the case, correct measures must be taken to fill in or smooth out the unevenness with products that are complementary to the substrate and the synthetic resin system to be installed. Shrink joints and passive cracks can be coated. This on condition that they are not used as dilatation joints or if they do not follow other movements of the structure and the substrate and that they are flattened with products that are complementary to the substrate and to the synthetic resin system to be installed.

REQUIRED TOOLS

- Mixer with spindle (min. 300 rpm)
- Brush or pain roller suitable for synthetic resin-based products.
- In case of spray application: Airless gun with 0.013-0.018 inch orifice or pneumatic gun with 1.5-2.4 mm orifice.
- Masking tape

PREPARATION OF THE SUBSTRATE

The surface must be mechanically pre-treated. This can be achieved by removing the dust by bullet- or sandblasting or by sanding the surface. The metal surface has a degree of roughness Rz of at least 40 and a very thorough Blast-Cleaning of minimal SA 2.5. Remove rust by sandblasting. The surface must be dry and free of impurities such as grease, oil or dust. Galvanized steel is thoroughly cleaned in advance with water and soap or sandblasted. First sand the stainless steel and degrease it well. Degrease metal surfaces immediately after the mechanical preparation with SOLVENT MEK. After the SOLVENT MEK has fully evaporated, immediately apply a layer of POLYAC® 15 to prevent the steel from re-oxidizing.

PREPARATION OF THE PRODUCT

Stir POLYAC® 15 homogeneously before use.

PREPARATION OF THE EQUIPMENT

Always work with clean mixing containers and application material.

APPLICATION

POLYAC® 15 is evenly distributed with a brush, a paint roller or sprayer. Apply a thin but continuous film. If the minimum dry film thickness of 50 µm is not achieved, a 2nd layer is applied to the clean surface to a total layer thickness of 50 to 80 µm.

FINISHING

After complete curing the POLYAC® system can immediately be applied.

APPLICATION CONDITIONS

Conditions during the application and curing of the products.

The recommended processing temperature for substrate, environment, material and products is between +10°C and +35°C. Relative humidity: Max. 85%

Dew point: The temperature of the substrate and of the not fully cured product must be at least 3°C higher than the dew point. Avoid condensation on the surface from the moment that the preparations start until the complete curing of the products. Ensure adequate ventilation and a low relative humidity during curing.

CLEANING AND MAINTENANCE

Clean the used tools with SOLVENT MEK or ethyl acetate before the curing of POLYAC® 15. Cured products residues must be removed mechanically.

For cleaning and maintenance of the installed synthetic resin systems please refer to the information sheets:

Cleaning and maintenance of synthetic resin floor systems - INDUSTRY
Cleaning and maintenance of synthetic resin floor systems - PUBLIC AND PRIVATE BUILDINGS.

COMPLIMENTARY PRODUCTS

Cleaning solvent for tools: SOLVENT MEK or ethyl acetate.

ADVICE / FOCAL POINTS

Higher temperatures and ventilation accelerate drying.
POLYAC® 15 can be applied with airless spray equipment if diluted with 5 to 10% Xylene.

For airmix spray equipment, 10 to 20% Xylene is added.

In case of lower viscosity at higher temperatures, after testing, it is possible to spray undiluted.

TECHNICAL DATA

APPEARANCE - COMPOSITION

Red liquid. Satin matte after drying.

REACTION TIMES

Processing time after mixing: N/A

Drying time (temperature, humidity and convection dependent):

Dust-dry: after approx. 30 minutes

Tack-free: after 1 to 1.5 hours (at 20°C).

Overcoatable with POLYAC® membranes or wear layers from the moment the layer is effectively tack-free.

CONSUMPTION

0.18-0.25 kg/m² (dry layer thickness 50-80 µm)


TECHNICAL DATA

Odour	Solvent
Initiator: none	Do not add an initiator
Min. film formation temperature MFT	+10°C
Viscosity	900 - 1200 mPa.s (EN ISO 3219 at 20 °C, Brookfield, spindle III/50 rpm)
Density	1.45 g/cm ³ ±0,05 (EN ISO 2811-1 at 20 °C)
Flash point	47°C (Xylene, DIN 51 755)
Abrasion resistance after drying (Taber CS10/1000/1000)	+/- 45 mg

CHEMICAL RESISTANCES

POLYAC® 15 finished with polymerized POLYAC® resins has a good chemical resistance to alkalis, petroleum derivatives, acid, salts and maintenance products. POLYAC® resins are not resistant to solvents. For more information please contact RESIPLAST NV.

CE MARKING

	
KORAC NV, Gulkenrodestraat 3, 2160 Wommelgem, Belgium	
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EN 13813	
Synthetic resin floor/coating for indoor use in buildings	
Release of corrosive substances	SR
Abrasion resistance	≤ AR0,5
Bond strength	≥ B2,0
Impact resistance	≥ IR10
Reaction to fire	E _{fl}

REFERENCE DOCUMENTS

Information sheet "POLYAC® ODOUR".



PACKAGING

POLYAC® 15	5 kg	Metal pail
	25 kg	Metal pail

STORAGE AND SHELF LIFE

Store POLYAC® products in a dry, well-ventilated storage area between +5 and +35°C.

Shelf life: 12 months after production date.

In case of doubt, please contact RESIPLAST NV and state the batch number on the packaging. Do not discharge into groundwater, surface water of sewers. Dispose of contaminated packaging and residues in accordance with the applicable legal requirements.

SAFETY PRECAUTIONS

Carefully read the safety data sheets before using POLYAC® products. A characteristic odour arises during processing. Ensure adequate ventilation, keep away from sources of ignition and do not smoke. Avoid skin contact. Eye irritation and/or hypersensitivity may occur with severe vapour concentration, inhalation and/or skin contact. Do not store food (food, drinks) in the same workspace. Always wear personal safety equipment in accordance with the applicable local guidelines and legislation. Gloves and safety glasses are mandatory.

The above information is provided in good faith, but without any guarantees. The application, use and processing of the products are beyond our control and are, as such, the sole responsibility of the user/processor. In the event that KorAC NV is still held liable for damages, then the claim will still be limited to the value of the goods delivered. We always aim to deliver consistently high quality goods. All values on this technical sheet are average values that result from tests carried out under laboratory conditions (20°C and 50% RH). Values that are measured on the construction site may show a slight deviation since the environmental conditions, the application, and the way of processing our products are beyond our control. Do not add any products other than those indicated on the technical documentation. This version replaces all previous versions. Version 2.0 Date: 24 January 2024 2:47 pm