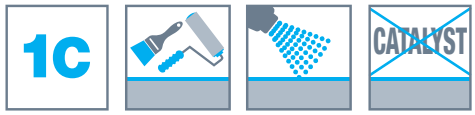
POLYAC® 17

INTERMEDIARY PRIMER BETWEEN POLYAC® WATERPROOFING MEMBRANES AND A MASTIC ASPHALT FINISH LAYER



DESCRIPTION

POLYAC® 17 is a fast curing synthetic primer developed to ensure optimum adhesion of mastic asphalt on to POLYAC® waterproofing membranes.

BENEFITS

- Easy to apply manually or with srpay equipment.
- Can be applied cold
- Excellent adhesion
- Moisture-repellent properties

FIELD OF APPLICATION

POLYAC® 17 was developed to ensure optimum adhesion of mastic asphalt on to POLYAC® waterproofing membranes.

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
POLYAC® 17 must be applied a dry surface.
Moisture content in the substrate: ≤ 5% moisture.
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 to the synthetic resin system to be installed.
Shrinking 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)
- Manual application: Divider-wiper Brush or pain roller suitable for synthetic resin-based products.
- Machine application: Suitable spray equipment
- Masking tape.

PREPARATION OF THE SUBSTRATE

POLYAC® 17 is installed on a POLYAC® BDM waterproofing system. The installed POLYAC® system must be sufficiently cured.
Always apply the products on a clean surface, free from adhesion reducing materials such as dirt, oil, grease, old coatings or surface treatments, ... High pressure water jetting is possible but then the surface must dry sufficiently (moisture content in the substrate: ≤ 5% moisture) before applying the primer. The parts of the surfaces to be coated that do not meet the requirements as described above (compressive strength, tensile strength, parts that are not well connected, ...) must be treated or removed and repaired according to a correct method and with POLYAC® products that are complementary to the substrate and the synthetic resin system to be installed. Remove any loose parts by brushing properly and remove dust with an industrial vacuum cleaner.

PREPARATION OF THE PRODUCT

Mix POLYAC® 17 well before use.

PREPARATION OF THE EQUIPMENT

Always work with clean equipment. Check the functionality and cleanliness of the spray equipment for machine application.

APPLICATION

POLYAC® 17 can be applied by means of a brush or by spraying. In doing so, prevent the mist and/or evaporating solvent from being inhaled.
Make sure the can is closed in warm weather to prevent thickening. An applicated primer layer that is too thick will adversely affect the adhesion.

FINISHING

The primer must dry for at least 15 minutes at 20 °C. After applying POLYAC® 17, the mastic asphalt must be applied within 24 hours. When in doubt, it is recommended to perform an adhesion test in advance.

APPLICATION CONDITIONS

Conditions during the application and curing of the products.
The recommended processing temperature for substrate, environment, material and products is between +5 °C and +35 °C. For temperatures lower than +5 °C please contact KORACHEM NV.
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® 17. Cured products residues must be removed mechanically.

COMPLIMENTARY PRODUCTS

Cleaning solvent for tools: SOLVENT MEK or ethyl acetate.

ADVICE

Commissioning depends on the type of mastic asphalt used.

RESIPLAST
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TECHNICAL DATA

APPEARANCE - COMPOSITION

Liquid with low viscosity, black.

REACTION TIMES

The primer must dry for at least 15 minutes at 20 °C. After applying POLYAC® 17, the mastic asphalt must be applied within 24 hours.

CONSUMPTION

135 - 180 g/m²

TECHNICAL DATA

Odour	Solvent
Cleaning of equipment:	SOLVENT MEK
Viscosity:	140 +/- 10 mPa.s (EN ISO 3219 at 20 °C, Brookfield, spindle 3, 200 rpm)
Density	0.91 +/- 0.03 (EN ISO 2811-1 at 20 °C)
Flash point:	4 °C

ADHESION AND SLIDING STRENGTH WITH THE FOLLOWING SYSTEM BUILD UP:

- CONCRETE with POLYAC® 14 (or 18) or STEEL with POLYAC® 15
- POLYAC® BDM membrane (If in 2 layers, the 2nd layer can be optionally sanded with fire-dried quartz grain, size 0.2-0.8 mm up to 1-2 mm.)
- POLYAC® 17
- Mastic asphalt 240 - 250 °C

Bond strength acc. to EN 13596	1.2 mPa
Shear strength acc. to EN 13653	0,55-0,63 N/mm²

CHEMICAL RESISTANCES

Polymerized POLYAC® resins have good chemical resistance to alkalis, petroleum derivatives, acid, salts and maintenance products. POLYAC® resins are not resistant to solvents. For more information please contact KORACHEM NV.

REFERENCE DOCUMENTS

G0003 (2013): Belgian certification guidelines liquid applied trafficable waterproofing systems such as bridges and park deck roofs.

ETAG 033: Guideline for European technical approval of liquid applied bridge deck waterproofing kits (Version July 2010).

NBN EN 13596: Flexible sheets for waterproofing - Waterproofing of concrete bridge decks and other concrete surfaces trafficable by vehicles - Determination of bond strength.

NBN EN 13653: Flexible sheets for waterproofing - Waterproofing of concrete bridge decks and other concrete surfaces trafficable by vehicles - Determination of shear strength.

bsi. ISO 9001:2015 Quality Management FM 78518

bsi. ISO 14001:2015 Environmental Management EMS 716699

COMPLIANT - COMPLIANT REACH

atg 3151

PACKAGING

POLYAC® 17	25 l	Can
	200 l	Barrel

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 KORACHEM 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 or 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 Korachem 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: 2 June 2025 2:33 pm

RESIPLAST
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