POLYAC® 61

TOUGH - FLEXIBLE PMMA TOP LAYER FOR POLYAC® SYSTEMS

DESCRIPTION

POLYAC® 61 is a tough-flexible, liquid-tight top layer for POLYAC® floor or membrane systems with excellent adhesion, high mechanical resistance, very high wear resistance, high reactivity and fast curing, even at low temperatures.

ADVANTAGES

- High reactivity
- Fast curing
- Applicable at low temperature
- Transparent or coloured.
- Good impact and wear resistance
- Optimal viscosity
- Light resistant
- Tough, flexible

FIELD OF APPLICATION

POLYAC® 61 is the recommended top layer for broadcasted POLYAC® floor and membrane systems with frequent traffic.

APPLICATION

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

PRELIMINARY ANALYSES

POLYAC® 61 top layer is only placed on another POLYAC® system. 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® 61 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.
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)
- Rubber squeegee
- Brush or pain roller suitable for synthetic resin-based products.
- Masking tape

PREPARATION OF THE SUBSTRATE

POLYAC® 61 top layer is only placed on another already cured POLYAC® system. Always apply the products on a clean substrate, free from adhesion-reducing materials such as dirt, oil, grease, etc. High pressure water jetting is possible but the surface must dry sufficiently (moisture content in the substrate: ≤ 5 % moisture) before applying the primer.
Cracks, joints and other parts that show water leaks must first be made completely water-tight and leak-proof. 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 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® 61 well before use. Paraffin can separate during storage. Dispense an amount of resin that can be processed within 15 minutes. For colouring POLYAC® 61 8 % pigment powder is added and homogeneously mixed before adding the POLYAC® CATALYST. For higher colour coverage, 30% (w/w) Silicato MNT with 8% (w/w) pigment can be added. Always add 1 to 5 % curing powder.
POLYAC® CATALYST must be ordered separately.

Add POLYAC® CATALYST to POLYAC® 61		
Temp.	In %	POLYAC® CATALYST per 1 kg POLYAC® 61
0 °C	5 %	50 g
5 °C	4 %	40 g
10 °C	3 %	30 g
20 °C	2 %	20 g
30 °C	1 %	10 g

Mix until the powder is completely dissolved.

RESIPLAST
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PREPARATION OF THE EQUIPMENT

Always work with clean mixing containers and application material.

APPLICATION

POLYAC® 61 is evenly distributed with a rubber squeegee or a short-haired paint roller. Apply sufficient POLYAC® 61 to create a tight top layer. Processing time of POLYAC® 61 is 10 to 15 minutes. Do not disturb the paraffin layer that occurs during curing. After one hour (at 20 °C) a second layer of POLYAC® 61 can be applied if necessary.

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® 61. Cured products residues must be removed mechanically.
For the cleaning and maintenance of the installed synthetic resin system, please refer to the information leaflets:
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
- POLYAC® CATALYST
- Pigment powder

ADVICE

To obtain a better coverage a fine filler can be added to POLYAC® 61. For more information please contact KORACHEM NV.

TECHNICAL DATA

APPEARANCE - COMPOSITION

Liquid with low viscosity, azure blue, slightly cloudy.

REACTION TIMES

Processing time after mixing: 10 to 15 min.
Walkable: after 1 hour
Recoatable: after 1 hour
Fully mechanical load: after 2 hours
Full chemical resistance: after 2 hours
Times measured at 20 °C; lower temperatures extend the curing time.

CONSUMPTION

Consumption on an anti-slip surface broadcasted with colour quartz grain 0.8 - 1.2 mm. grain size; 0.6 kg/m²
With a higher roughness or if one wants to level out the roughness, consumption increases up to over 0.8 kg/m².

TECHNICAL DATA

Odour	Methyl methacrylate
Initiator: POLYAC® CATALYST	BPO 50 %, depending on the temperature from 1 % to 5 weight % calculated on the proportion of POLYAC® 61
Viscosity	145 - 180 mPa.s (EN ISO 3219 at 20 °C, Brookfield, spindle III/200 rpm)
Density	0.99 g/cm³ ±0.03 (EN ISO 2811-1 at 20 °C)
Flash point	10 °C (MMA, DIN 51 755)
Hardening test (test volume)	300 g POLYAC® 61 with 6 g curing powder
Exothermic peak	130 - 145 °C
POLYAC® 61 + 2 % POLYAC® CATALYST	
Density:	0.98 kg/dm³
Colour	transparent
Shore D hardness	70 – 80

CHEMICAL RESISTANCES

Polymerized POLYAC® resins have good chemical resistance to alkalis, petroleum derivatives, acid, salts and maintenance products. For more information please contact KORACHEM NV.

CE MARKING

CE

KORACHEM NV, Gulkenrodestraat 3, 2160 Wommelgem, Belgium	
12	
EN 13813	
Synthetic resin floor/coating for indoor use in buildings	
Release of corrosive substances	SR
Abrasion resistance	AR0.5
Bond strength	≥ B1.5
Impact resistance	≥ IR6
Reaction to fire	E_{fl}

Part of:

CE

0749
13 0749-CPR-BC2-562-4714-0001-001
EN 1504-2:2004
DoP N°: DOP02PLC01S2 DoP N°: DOP02PLC02S2 DoP N°: DOP02PLC03S2 DoP N°: DOP02PLC04S2

REFERENCE DOCUMENTS

Information sheet “POLYAC® ODOUR”.

PACKAGING

POLYAC® 61	20 kg	Metal pail
	180 kg	Drum

To be ordered separately:

POLYAC® CATALYST	0.5 kg	Plastic pail
	5 kg	Plastic pail
	25 kg	Box

Pigment powder	1 kg	Plastic pail
	5 kg	Plastic pail
	25 kg	Bag

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, 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: 10 July 2025 1:41 pm

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