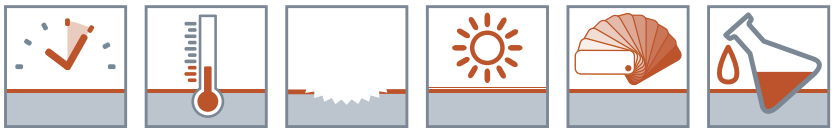
POLYAC® 62

HYCHEM
Infrastructure

HARD PMMA TOP LAYER FOR POLYAC® SYSTEMS



Description

POLYAC® 62 is a hard, 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.

Benefits

POLYAC® 62 has the highest light fastness, the best water tightness and the highest chemical resistance of all POLYAC® top layers.

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

Field of Application

POLYAC® 62 is a hard top layer for POLYAC® floor systems.

Application

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

Preliminary analyses

POLYAC® 62 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/mm^2
- Tensile strength of the substrate: min. 1,5 N/mm^2

POLYAC® 62 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.

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POLYAC® 62

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® 62 top layer is only placed on another already cured POLYAC® system. Always apply POLYAC® 62 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

Mixing

Mix POLYAC® 62 well before use. Paraffin can separate during storage. Dispense an amount of resin that can be processed within 15 minutes.

For colouring POLYAC® 62 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® 62		
Temp.	**In%**	**POLYAC® CATALYST per 1 kg POLYAC® 62**
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.

Preparation of the equipment

Always work with clean mixing containers and application material.

Application

POLYAC® 62 is evenly distributed with a rubber squeegee or a shorthaired paint roller. Apply sufficient POLYAC® 62 to create a tight top layer. Processing time of POLYAC® 62 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® 62 can be applied if necessary.

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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 RESIPLAST 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 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
- POLYAC® CATALYST
- Pigment powder

Advice/focal points

To obtain a better coverage a fine filler can be added to POLYAC® 62. For more information please contact RESIPLAST NV.

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

0.35 kg/m^2

Consumption on an anti-slip surface broadcasted with colour quartz grain 0.8 – 1.2 mm. grain size: 0.6 kg/m^2

With a higher roughness or if one wants to level out the roughness, consumption increases up to over 0.8 kg/m^2.

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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® 62
Viscosity	150 – 300 mPa.s (20°C Brookfield, spindle III/200 rpm)
Density	1 g/cm^3 ±0,1 (20°C)
Flash point	10°C (MMA, DIN 51 755)
Hardening test (test volume)	300 g POLYAC® 62 with 6 g curing powder
Exothermic peak	150 – 170°C
POLYAC® 62 + 2% POLYAC® CATALYST	
Density	0.98 kg/dm^3
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 RESIPLAST NV.

CE MARKING

CE	
KORAC 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}

* On primer POLYAC® 15

Reference documents

Information sheet “POLYAC® ODOUR”.

FM 78518

EMS 716699

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Packaging

POLYAC® 62	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 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 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.

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