

Concrete primer POLYAC® systems for wet substrates

USE

POLYAC® 18 is used as a primer for damp or new concrete substrates. We strongly recommend that curing and adhesion tests are conducted on the substrate prior to general use on site.

Broadcast POLYAC® 18 can be used as a quick primer for polyurethane and epoxy floors.

POLYAC® 18 exhibits outstanding adhesion to concrete and its rapid reaction and high reactivity allow it to be used at temperatures below freezing point.

POLYAC® 18 can be used as concrete protection.

CHEMICAL RESISTANCE

Polymerised POLYAC® resins have high chemical resistance to alkalis, petroleum derivatives, acids, salts and maintenance products. For more information, please contact RESIPLAST NV.

PROPERTIES

- High reactivity
- Fast curing
- Applicable at low temperatures
- Optimal viscosity
- Wide range of applications
- Optimised polymerisation under adverse conditions
- Apply with roller or brush

APPLICATIONS- PROCESSING

• Preparing the substrate

Polyac 18 is suitable for damp or dry concrete and cementitious substrates. Visible water on the surface isn't allowed. The substrate must be firm, solid and free of dust, fat and oil. Loose particles and laitance must be removed by shot blasting or grinding. Tensile strength of the substrate is at least 1.2MPa. Oils and grease must be removed by flame blasting. The optimal processing temperature varies between +5°C and +35°C. For temperatures less than +5°C, please contact Resiplast NV.

• Mixing

Mix POLYAC® 18 thoroughly before use. Paraffin may separate during storage. Dose a quantity of resin that can be processed within a period of 15 minutes. Add 1 to 5% hardener powder. POLYAC® CATALYST has to be ordered separately.

Add POLYAC® CATALYST to POLYAC® 18		
Temp.	In %	POLYAC® CATALYST per 1kg POLYAC® 18
0°C	5%	50g
5°C	4%	40g
10°C	3%	30g
20°C	2%	20g
30°C	1%	10g

Mix until the powder is completely dissolved.

• Application

Apply POLYAC® 18 evenly using a rubber squeegee or a short-haired paint roller. Apply primer until the area is fully covered with a sealing coat.

A second coat of POLYAC® 18 is required on highly porous substrates.

Do not disturb the paraffin layer that is formed during curing.

Additional mechanical adhesion can be achieved by broadcasting quartz into the uncured coating (0.5kg/m²). Polyurethane and epoxy systems can only be applied to broadcast POLYAC® 18 primer.

• Subsequent processing

The cured coating can be covered with other POLYAC® systems after one hour.

As primer on contaminated substrates:

First carry out an adhesion and curing test.

After substrate preparation, take a small quantity of POLYAC® 18. Add 3% POLYAC® CATALYST. Mix until the powder is completely dissolved. Broadcast a generous layer of the mixture over the surface and allow to cure completely. Test the adhesion by separating the primer from the substrate with a hammer and chisel. In case of a sticky or poorly adhering contact surface, continue to clean the substrate or choose an alternative primer.

PACKAGING

POLYAC® 18	20kg	Metal pail
	180kg	Drum


To be ordered separately

POLYAC® CATALYST	0,5kg	Plastic pail
	5kg	Plastic pail
	25kg	Box

TECHNICAL PROPERTIES RESIN

Appearance:	Low viscosity, colourless, slightly cloudy liquid
Odour:	Methyl methacrylate
Initiator: POLYAC® CATALYST	BPO 50%, as a function of temperature from 1% to 4% by weight, calculated on percentage of POLYAC® 18
Pot life:	10 to 15min 20°C
Cleaning of equipment:	MEK or ethyl acetate
Viscosity:	200 - 250mPa.s (20°C Brookfield, spindle III/200 rpm)
Density:	1.1g/cm ³ ±0.3 (20°C)
Flash point:	10°C (MMA, DIN 51755)
Curing test: (test volume)	300g POLYAC® 18 with 6g hardener powder
Peak exotherm temperature:	120°C to 145°C
POLYAC® 18 + 2% POLYAC® CATALYST	
Density	0.98kg/dm ³
Colour	Yellow-brown transparent
Shore D hardness	70 – 80

CE CERTIFICATE


Resiplast NV, Gulkenrodestraat 3, B-2160 Wommelgem
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EN 13813
Synthetic resin based coating for use in buildings.

Reaction to fire	E _{fl}
Release of corrosive substances	SR
Water permeability	NPD
Wear resistance (Taber)	<15mg (CS10-1,000 cycles-1kg)
Adhesive pull strength	B 1.5
Impact resistance (DIN EN ISO 6272)	<1Nm
Sound insulation	NPD
Sound absorption	NPD
Thermal insulation	NPD
Resistance to chemicals	NPD

CONSUMPTION

Consumption: 0.35kg/m²
Consumption is higher for porous substrates.

TO BE PURCHASED SEPARATELY

- Cleaning solvent for tools: MEK solvent
- POLYAC® CATALYST

STORAGE

Store POLYAC® products in a dry, well-ventilated storage area between 5°C and 35°C. Shelf life: 12 months.

When in doubt, contact RESIPLAST NV, stating the batch number on the packaging. Do not discharge into groundwater/surface waters/sewers. Dispose of contaminated packaging and residues in compliance with applicable legal requirements.

SAFETY

Please read the safety data sheets carefully before using POLYAC® products. The products emit a characteristic odour during processing. Provide adequate ventilation. Keep away from sources of ignition. No smoking. Avoid skin contact. Eye irritation and/or hypersensitivity may occur at high vapour concentrations, upon inhalation and/or skin contact. Do not store food or beverages in the work area. Always wear personal protective equipment in accordance with all applicable local regulations and legislation. Gloves and safety goggles are mandatory.