

USE

POLYAC® BDM-M is a highly reactive liquid, easy-to-apply waterproofing system.

POLYAC® BDM-M forms an elastic membrane of very high durability also at low temperatures.

Ideally suited for renovation of existing waterproofing layers.

For horizontal and vertical applications on roofs, terraces, reservoirs and bridges.

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
- Short throughput time
- Applicable at low temperatures
- Crack bridging
- High chemical resistance
- Resistant to thermal shock
- Resistant to thawing salt

APPLICATIONS- PROCESSING

• Preparing the substrate

Suitable substrates are: roofing, existing POLYAC® coatings, concrete, metal, and asphalt concrete. The substrate must be clean and dry.

When applied to metal, a layer of POLYAC® 15 is applied after rust removal. (refer to technical data sheet POLYAC®15).

New concrete must be at least 28 days old, free of curing compound, laitance, grease and oil. Old concrete and mineral substrate must be pretreated by shot blasting, sand blasting or pickling. The maximum moisture content must be less than 4% and the tensile strength of the substrate at least 1.2MPa.

Prime concrete and asphalt concrete with POLYAC®14 (refer to technical data sheet POLYAC®14) All substrates must be dry and clean. Remove and repair loose parts. Correctly level out differences in level.

The optimal processing temperature varies between +5°C and +35°C. For temperatures less than +5°C, please contact our technical service.

• Mixing

Mix all components of POLYAC® BDM-M well before use. Add one package of POLYAC® BDM-M Part C to 25kg POLYAC® BDM-M. This mixture remains stable for 8 hours.

Dose a quantity of resin that can be processed within a period of 15 minutes. Add 1 to 4% POLYAC® CATALYST .

Temperature:	grammes POLYAC® CATALYST per 100 grammes POLYAC® BDM-M
5°C	4g
10°C	3g
20°C	2g
30°C	1g

Mix the hardener powder for one minute until dissolved completely
For vertical applications, the addition of 2% POLYAC® Thixogène is recommended.

• Application

Distribute the mixture with a spatula, rake or toothed trowel. Deaeration and levelling with a spiked roller is recommended.

At least two layers of POLYAC® BDM-M are applied. Only the last layer is broadcast with dry quartz after distribution and levelling. Minimum quartz grain size: 0.4-0.8mm

The consumption of POLYAC® BDM-M depends on the substrate and the type of project.

The recommended layer thickness for a two-layer POLYAC® BDM-M configuration is 3mm. (1.5mm + 1.5mm) Processing time: 15 to 20 minutes.

Coat	Product	Layer thickness mm	Consumption kg/m ²
Primer	Dependent on substrate	≈ 0,3	0,25 - ...
Levelling coat	Dependent	1,5 -	
1st coat	POLYAC® BDM-M	1 to 2	1,2 - 1,8
2nd coat +broadcasting	POLYAC® BDM-M Quartz	1 to 2 2 to 3	1,2 - 1,8 4 - 6
Top coat	POLYAC® 61-65	0,6 - 1	0,6 - 1

After 2 hours all excess and loose quartz is removed and the POLYAC® 61-65 top coating can be applied. (see technical data sheet POLYAC® 61-65)

• Subsequent processing

The cured coating can be walked on after one hour.
Full chemical resistance is achieved two hours after curing.

PACKAGING

POLYAC® BDM-M	25,6kg	25kg Metal can
		0,6kg Plastic bottle


To be ordered separately:

POLYAC® CATALYST	0,5kg	Plastic pail
	5kg	Plastic pail
	25kg	Box
POLYAC® Thixogène	1kg	Plastic bottle
	5kg	Plastic pail
Pigment powder	1kg	Plastic pail
	5kg	Plastic pail
	25kg	Bag
Filling granulate	25kg	Bag

TECHNICAL PROPERTIES

Appearance:	Liquid, slightly viscous, white, opaque
Odour:	Methyl methacrylate
Initiator: POLYAC® CATALYST	BPO 50%, as a function of temperature, from 1% to 4% by weight, calculated on percentage of POLYAC® BDM-M
Pot life:	10 to 15min (20°C)
Cleaning of equipment:	MEK or ethyl acetate
Viscosity:	1000 – 2000mPa.s (20°C Brookfield, spindle III / 40 tr/min.)
Density:	1.2g/cm ³ ±0.1 (20°C)
Flash point:	10°C (MMA, DIN 51755)
Curing test: (test volume)	300g POLYAC® BDM-M with 6g hardener powder
Peak exotherm temperature:	130 – 145°C
Customs tariff number:	320 820 100
Transport safety:	Class 3 - III - UN N°1866 (ADR) (ref. Safety Data Sheet POLYAC® M)
POLYAC® BDM-M + 2%POLYAC® BDM Part C + 2% POLYAC® Hardener	
Density:	1.2kg/dm ³ +/- 0.1
Colour	White or coloured
Shore D hardness	40 – 50

CE CERTIFICATE


0749-CPD
Resiplast NV/SA, Gulkenrodestraat 3, B-2160 Wommelgem
13 BC2-562-4714-0001-001
EN 1504-2 Products and systems for the protection and repair of concrete structures.

CONSUMPTION

Consumption: 1.5 to 1.8kg/m² per layer, minimum 2 layers.

TO BE PURCHASED SEPARATELY

- Cleaning solvent for tools: MEK solvent
- POLYAC® CATALYST
- POLYAC® Thixogène (vertical applications)
- Pigment powder
- Filling granulate

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.

This information is provided in good faith, but without guarantee. The application, use and processing of the products are beyond our control and therefore your entire responsibility. Should Resiplast N.V. nevertheless be held liable for any damage, such liability will be limited to the value of the goods delivered by us. We are committed to providing high-quality goods at all times. This version supersedes all previous versions. Version: 1.4 Date: 25 July 2017 11:03 AM

Crack bridging	class B3.1 (-10°C)
Resistance to chemicals	NPD
Resistance to thermal shock	NPD
Thermal compatibility EN1368	≥ 1.5N/mm ² (≥3.4N/mm)
Cross cut	NPD
Thermal expansion coefficient	NPD
Compressive strength	NPD
Linear shrinkage	NPD
Fire class EN 13501	EFL (B _{fl} -S ₁ in system)
Adhesive pull strength	≥1.5N/mm ² (≥4N/mm)
Impact resistance	Class III
Capillary water absorption	W<0.1kg/m ² /h
Water vapour permeability	Class III
CO2 permeability	SD ≥ 50m
Wear resistance - Taber	<3000mg (<100mg)
Chloride diffusion	1.9*10e-14m ² /s
Hazardous substances	NPD
Artificial ageing	2000h no defect