

MATACRYL[®] MACHINE

**Spray applied waterproofing
membrane for Engineering Structures**



RPM/Belgium N.V.

Alteco Technik GmbH

An **RPM** Company

Matacryl® Machine

Spray applied waterproofing membrane.

Industrial Needs

The Transportation Sector offers some of the most demanding operating environments in which structural waterproofing membranes have to perform. Subject to a wide range of climatic conditions, continual exposure to cyclical movement, plus aggressive mediums such as oils, salt solutions and mineral acids, incorrect membrane selection often leads to premature structural failures. For structures to remain maintenance free the selection of the correct waterproofing membrane is of the highest priority.

The System

- The Matacryl® Machine is a **100% effective waterproofing membrane** which offers the Engineer the opportunity to protect his design with a tough yet flexible, seamless non-degradable system.
- Matacryl® Machine is a rapid cure polyurethane modified acrylic resin membrane that is resistant to oils, grease, salt solutions and diluted mineral acids.
- Free of vulnerable joints Matacryl® Machine is the ideal solution to protect concrete and steel decks in heavy civil engineering construction.



Areas of application

Heavy civil engineering structures such as:

- Railway Bridges
- Cut & cover Tunnels
- Viaducts
- Bridge decks
- Culverts
- Service ducts
- Edge beams



MATACRYL® MACHINE offers distinct advantages to owners / specifiers, engineers and contractors alike:

• *Owner / Specifier*

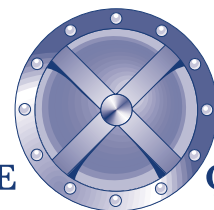
- Fast turnaround
- High chemical and abrasion resistance
- High resistance to impact and mechanical wear
- Root proof
- Long service life

• *Engineer*

- Fully bonded - reduces risk of detachment / impact / tracking
- Complicated detailing made simple
- Wide temperature range of application
- Flexible and crack bridging
- One system for vertical and horizontal applications

• *Contractor*

- Rapid application, up to 2.000 m² per day (1 crew) depending on the size and the capacity of the spraying equipment
- Applied in the widest range of climatic conditions (-30°C to +35°C)
- Reduced intercoat cure time means less delays due to weather change
- Rapid cure means reduced construction time
- No need for protective layers after application
- Roller-grade available for localized repairs, and areas of difficult access



PROTECTIVE

QUALITY®

MATACRYL[®] MACHINE Engineering Properties

Physical Properties	Test Method	Test Institute	Value
Adhesion to concrete	N FP 98 282	CETE Laboratoire, France	3,4 MPa - rupture in concrete
Crack-bridging capacity	BPG für Beschichtungen	Techn. University Munich, Germany	At 23°C, 2,4 mm thickness - 8 mm At 0°C, 2,1 mm thickness - 6,5 mm At -20°C, 2,7 mm thickness - 8,8 mm
Dynamic puncture resistance	ETAG 005 Part 1 No. 5, 3, 3, 2, 2 TR 000	Polymer Institute, Germany	At 0,5 mm I3 At 1,5 mm I4
Static puncture resistance	ETAG 005 Part 1 No. 5, 3, 3, 2, 2 TR 007	Polymer Institute, Germany	At 0,5 mm L3 At 1,5 mm L4
Dynamic puncture resistance under railway ballast	SNCF Method	SNCF (French Railways) Laboratoire, Vitry-sur-Seine	Meets specification of no rupture of the membrane after 2 million loading cycles
Rebound elasticity	DIN 53512	Polymer Institute, Germany	23,3 %
Shore A-Hardness	N FP 98 285	CETE Laboratoire, France	60 IRHD (1 hour after application) 85 IRHD (3 hours after application)
Taber abrasion, load 1000 gr. Roll CS 10	ISO 7784-2	Polymer Institute, Germany	55,7 mg after 500 turns 63,9 mg after 1000 turns
Tensile strength at -20°C	ISO 527	Polymer Institute, Germany	24 MPa / 107% elongation
Modulus at 100% elongation	ISO 527	Alteco Technik GmbH, Germany	2,31 MPa
Modulus at 300% elongation	ISO 527	Alteco Technik GmbH, Germany	4,22 MPa

Specialist Applicators!

The Specialist Applicators in Partnership with RPM/Belgium N.V. and Alteco Technik GmbH have undergone extensive product training and offer years of practical experience in providing technical solutions for water-proofing. For peace of mind you can rely on the Protective Quality Group to solve your waterproofing needs.

This brochure is not intended to establish product recommendations for any installation. To the best of our knowledge the information contained herein is true and accurate at the time of issue, but is subject to change without prior notice. No part of this brochure may be copied without written authorisation of RPM/Belgium N.V. - © RPM/Belgium N.V.

Warranty

RPM/Belgium N.V. and Alteco Technik GmbH warrant all goods to be free from defects and will replace materials proven to be defective. The given information corresponds to our present standard of knowledge. However, it is the buyer's responsibility to determine the suitability of the products in individual cases by conducting own tests.

RPM/Belgium N.V. and Alteco Technik GmbH are subsidiaries of RPM Inc., USA, a public owned American company and are leading manufacturers of industrial flooring systems, coatings, sealants and membranes. RPM/Belgium N.V. and Alteco Technik GmbH are certified by Lloyd's to the ISO 9001 quality standard.

Authorised Applicator:



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