



RASCORail RBP320

BALLAST BONDING

POLYURETHANE BALLAST BONDING

RASCORail RBP320 is a solvent-free, mildly hydrophobic 2-component polyurethane resin. It has been specifically developed for gravel bonding applications, such as in the switch area. The bonding of the gravel stabilizes the track bed, significantly reducing maintenance costs. Due to the localized bonding, the drainage capability of the gravel bed is maintained, allowing water to flow away.

USE

RASCORail RBP320 is a polyurethane-based agent for bonding gravel and other loose rocks, designed for temporary track securing during rail construction work. This allows for the operational safety of the adjacent track without the need for elaborate form-work. RASCORail RBP320 also stabilizes the subsoil in areas such as tunnels, bridge crossings, or generally weak foundations. It prevents gravel scattering and can mitigate damage to the gravel bed caused by floods and high water levels. Gravel treated with RASCORail RBP320 simplifies cleaning procedures at railway stations and helps prevent vandalism on and around rail facilities.

FEATURES

- high ballast permeation
- minimal foaming of material in contact area with water
- high compressive strengths
- use of accelerator allows individual control of gel time
- pigmented material (black, grey) upon request

EXPERT REPORTS

- Impact on groundwater hygiene, MFPA Leipzig, Germany
- Further reports on request



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LEGAL NOTICE: The information provided on the use and application of our products in this technical data sheet is based on the present state of our knowledge. The customer shall bear sole responsibility for the proper specification, application and use of the products in line with the intended purpose, project-specific conditions and external actions. The most recent technical data sheet shall apply. The current technical data sheets are available at www.rascor.com. Our General Terms of Business shall form an integral part of this technical data sheet.

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TECHNICAL/PHYSICAL DATA

| | A-Comp | B-Comp |
|-----------------------------|--|----------------------|
| Supplied form | liquid | liquid |
| Material colour | slightly yellowish-orange | brown |
| Container type | IBC | IBC |
| Container size | 990 ltr/ 1000 kg | 990 ltr/ 1250 kg |
| Viscosity (DIN EN ISO 3219) | 190 - 250 mPas | 180 - 240 mPas |
| Density (DIN EN ISO 2811) | 1,01 kg/ltr (± 0,04) | 1,23 kg/ltr (± 0,04) |
| Hazardous goods/ADR | none | none |
| Application temperature | from +5 °C to +40 °C | |
| Storage/shelf life | 6 months in original container, from +10 °C to +25 °C, in dry conditions | |

Mix (ready-to-use)

| | |
|--|--------------------------------|
| Mixing ratio | 1:1 (by volume) |
| Pot life at 25 °C | approx. 15 min |
| Track-free | 1,5 - 2 h |
| Curing time | 4 - 6 h |
| Tensile bond strength (DIN EN 12618-2) | approx. 3,7 N/mm ² |
| Flexural tensile strength (DIN EN 196-1) | approx. 17,7 N/mm ² |
| Tensile strength (DIN EN ISO 527-3) | approx. 44,2 N/mm ² |
| Compressive strength (DIN EN 196-1) | approx. 62 N/mm ² |
| Shore A-hardness | > 80 |

The technical details are based on laboratory values from external and/or internal laboratory tests. These details are for information purposes only. The exact product values and their tolerances (e.g. temperature fluctuations ± 2 °C) are verified and approved on the basis of the test guidelines.

SUPPLY/ADDITIVES

| Item no. | Product | Container | Contents |
|---|-------------------------|-----------|--------------------|
| 1112.1131.002 | RASCORail RBP320 A-Comp | IBC | 990 ltr / 1000 kg |
| 1112.1132.002 | RASCORail RBP320 B-Comp | IBC | 990 ltr / 1250 kg |
| 1112.1131.001 | RASCORail RBP320 A-Comp | Kanister | 19,8 ltr / 20,0 kg |
| 1112.1132.001 | RASCORail RBP320 B-Comp | Kanister | 19,8 ltr / 24,3 kg |
| Grouting machines, equipment and accessories available on request | | | |

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APPLICATION/PREPARATION

The A- and B-components are supplied in the correct, ready-to-use volumetric proportions of 1:1. Application is by spraying with a wide-angle nozzle using an injection pump that delivers the components in the ratio 1:1 by volume. The components are delivered separately and mixed together by a static mixer immediately before spraying. The reaction of the mixed components produces a polyurethane system.



GENERAL GUIDELINES / SAFETY NOTICE

The reaction and curing times are temperature-dependent. Ambient and gravel temperatures significantly influence the reaction.

The individual components should have a processing temperature of at least +5 °C. Ensuring a homogeneous mixture of the individual components is essential, for which a static mixer of at least 300 mm should be used. All RASCORail resins are sensitive to moisture. Avoid using water or water-containing substances for cleaning equipment and pumps.

Wear suitable protective clothing, gloves, a mask, and safety goggles. Keep an eye wash bottle readily available. For detailed information, please consult the safety data sheet.

DISPOSAL

For the disposal of individual components, please refer to the Material Safety Data Sheet. The fully reacted material, in moderate quantities, can be disposed of in regular household waste.

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