PPE and on-site handling guidance

Resin Bound PRO UVR: two-component polyurethane system for resin-bound surfacing, exterior application.

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1. Scope and status of this document

This document sets out the personal protective equipment and working methods that Resin Mill Europe BV recommends for handling the Resin Bound PRO UVR system: Part A (resin) and Part B (hardener).

It is supplier information intended to supplement the safety data sheets. It does not replace the risk assessment that the employer is required to carry out under the Belgian Code on well-being at work, nor any health surveillance that may follow from it.

This document applies to exterior application using a forced action mixer and hand application. Interior application, application in confined spaces, or the use of different equipment requires a separate assessment.

CAUTION The optional low-temperature catalyst A9511 has been withdrawn from the EU range and is not supplied by Resin Mill Europe BV. It falls outside the scope of this guidance.

2. Products and hazards

Part A, resin component	TRIXENE DP9C-587 polyol blend, solvent free. Not classified as hazardous.
Part B, hardener	Hexamethylene diisocyanate oligomers, isocyanurate type. Free monomeric HDI below 0.10% w/w. H332 harmful if inhaled. H317 may cause an allergic skin reaction. H335 may cause respiratory irritation.

KEY CONTROL POINT Skin contact is a key exposure route and must be prevented. Part B is a skin sensitiser. Sensitisation can persist, and subsequent exposure may provoke a reaction even at low concentrations.

3. Exposure in this application

Belgium applies occupational exposure limit values for diisocyanates, expressed as NCO groups:

8-hour time-weighted average	10 µg NCO/m³. From 1 January 2029: 6 µg NCO/m³.
Short term, 15 minutes	20 µg NCO/m³. From 1 January 2029: 12 µg NCO/m³.

NOTE The specified application does not involve spraying or intentional aerosolisation. Part B is mixed in a forced action mixer and applied by trowel in the open air. This reduces inhalation exposure potential but does not remove the need to comply with the occupational exposure limits and the employer's risk assessment.

CAUTION The low free-monomer content does not exempt users from applicable occupational exposure limits. Never spray, heat, thin with solvent, or use in a confined or poorly ventilated space without a separate risk assessment.

4. Mandatory personal protective equipment

Hands	Nitrile from 0.35 mm, or butyl rubber or neoprene from 0.5 mm. Target breakthrough time at least 8 hours. Standard EN 374. Confirm suitability with the glove supplier.
Eyes	Chemical splash goggles to EN 166 when decanting or where splashing is possible. Ordinary safety spectacles are not sufficient for splash risk.
Body	Long sleeves or a disposable coverall; keep forearms covered. Where splashing is possible, use suitable chemical-protective clothing.
Feet	Chemically resistant safety footwear to EN ISO 20345. Spiked shoes may be worn over these when finishing the surface.

Respiratory	Not normally required for exterior application by trowel. Where ventilation is inadequate or the risk assessment indicates it, use appropriate certified respiratory protection; supplier recommendation is combination filter A2/P2 or higher, with a suitable facepiece.

Gloves in practice

- Replace contaminated or damaged gloves immediately.
- Never re-use contaminated disposable gloves.
- Remove gloves without touching the contaminated outer surface with bare skin.
- Cotton or leather work gloves do not provide chemical protection against isocyanates.

5. Working method and points of attention

5.1 Preparation

- Provide water and soap on site and have eye-rinse facilities within reach.
- Mark out the mixing zone and keep unprotected persons and bystanders away.
- Check gloves and eye protection before use.

5.2 Mixing

- Pour the entire contents of Part B into the container holding Part A. Pour close to the container to minimise splashing.
- Mix for 1 minute 30 seconds at medium speed until creamy. Do not over-mix.
- Start the mixer only once the whisk is fully immersed in the material.

5.3 Application

- Apply by trowel or spazzle. Keep skin covered, including in warm weather.
- Avoid kneeling in or on fresh material. Clean or dispose of contaminated knee pads appropriately.
- Never touch fresh material with a bare hand to check the finish.

6. Hygiene

- Do not eat, drink or smoke while working with this product.
- Wash hands before every break and at the end of the working day.
- Remove contaminated clothing promptly and wash it before re-use.
- Do not wash contaminated work clothing with household laundry.
- Remove protective equipment before entering eating or rest areas.

7. First aid

Poison Centre (Belgium)	070 245 245, 24 hours a day. From abroad: +32 70 245 245.
Emergency number	112 in case of serious or life-threatening symptoms.
Skin contact	Wash immediately with soap and water. If redness, itching or a rash develops, obtain medical advice and take the safety data sheet with you.
Eye contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses if easy to do and continue rinsing. Obtain medical attention.
Inhalation	Move to fresh air. If symptoms persist or breathing is difficult, consult a doctor.
Ingestion	Rinse the mouth with water. Do not induce vomiting unless directed by a doctor.

CAUTION First aiders must protect themselves. Use appropriate gloves and eye protection before assisting anyone contaminated with fresh material.

8. Spills, waste and storage

8.1 Spills

- Ensure adequate ventilation and keep unprotected persons away.
- Absorb with suitable inert material and collect in an appropriate container.

- Spilled material may make surfaces slippery; cordon off the area until cleaned.
- Prevent release to drains or surface water.

8.2 Waste

- Dispose of waste through an authorised contractor in accordance with applicable regional legislation.
- Do not re-use empty containers.
- Do not seal containers holding uncured Part B residues or product that has contacted water; reaction with moisture may liberate carbon dioxide and create pressure.

8.3 Storage

- Part B is moisture sensitive. Keep the original container tightly closed when not in use.
- Store protected from moisture, heat and direct sunlight. Raw-material supplier storage guidance is 0-30 °C.

9. Training and health surveillance

NOTE REACH Annex XVII Entry 74 requires mandatory diisocyanate training unless the concentration of diisocyanates individually and in combination is below 0.1% by weight. The supplier specification for Part B confirms free monomeric HDI below 0.10% w/w; on that basis the Entry 74 mandatory training condition is not triggered for this product as supplied.

Resin Mill Europe BV nevertheless provides installer training that includes safe handling of the system. Part B is classified as a skin sensitiser. The employer must determine, through its own risk assessment and the Belgian Code on well-being at work, whether health surveillance is required. Workers reporting skin or respiratory symptoms should be referred to the occupational physician.