Resin Bound PRO UVR, technical data sheet

Solvent-free, two-component aliphatic polyurethane binder for light-stable resin bound aggregate surfacing (ResinBound UVR Pro).

Document RME-TDS-UVR-01 | Version 2.1 (EU edition) | Date 19-10-2026 | Language EN

1. Description

Resin Bound PRO UVR is a solvent-free, two-component aliphatic polyurethane kit developed for light-stable aggregate surfacing. It binds a wide range of dried aggregates such as natural gravel, crushed stone and recycled glass. The system is suitable for external and internal applications; typical uses are driveways, footpaths, patios and parks.

It is based on an aliphatic resin that is light-stable (non-yellowing), which makes it the right choice where the surface must keep its colour, for example with pale aggregates. The cured surface is water-permeable and has excellent weathering properties.

Benefits

- Retains its colour: light-stable, non-yellowing.
- Moisture-tolerant in as little as four hours after laying (at 20 °C), according to in-house tests.
- Withstands heavy foot traffic 24 hours after laying (at 20 °C); hard-wearing and durable.
- Water-permeable: with 18 to 25 % voids in the surface, 700 to 850 litres of water per m² per minute can pass through, which suits sustainable drainage requirements and tree pits.
- Ideal for refurbishment: can be laid over sound existing concrete or asphalt.

2. System components

Part A, resin	Polyurethane base, polyol, 100 % solids (TRIXENE DP9C-587). Pale yellow liquid, viscosity about 2000 mPa.s. Not classified as hazardous.
Part B, hardener	Aliphatic isocyanate hardener, HDI oligomers of the isocyanurate type, 100 % solids (WANNATE HT-100plus). Pale yellow liquid, viscosity about 2000 mPa.s. Classified H332, H317, H335; free monomeric HDI below 0.10 % (m/m).
Mixing ratio	50:50 Part A to Part B by weight.
Safety documentation	Safety data sheets for Part A and Part B and the on-site PPE guidance (RME-PPE-UVR-01) are supplied with the product and published at safety.resinmill.eu. Read them before use.

3. Instructions for use

Resin Bound PRO UVR is a two-component system: the polyurethane base (Part A) and the aliphatic polyurethane hardener (Part B) are mixed together and then added to the aggregate.

3.1 Surface preparation

- All surfaces must be clean, dry and free of contaminants and loose particles to ensure adhesion.
- Prime concrete surfaces with Resin Mill Primer C.

3.2 Mixing

- The resin is mixed 50:50 Part A to Part B by weight for the strongest surface.
- Scrape all hardener out of its container.
- Mix the resin thoroughly with a slow-speed, high-torque drill and paddle for about 60 seconds.
- Immediately add the mixed resin to the pre-mixed aggregate (100 kg) in a suitably sized forced-action mixer.
- Mix resin and aggregate for about two minutes.
- Mix every batch for the same length of time.

3.3 Application

- Transfer the mixed resin and aggregate to the application area in a wheelbarrow.
- Pot life is 70 minutes at 20 °C once Part A and Part B have been mixed.
- Spread the mix evenly at the required depth with a squeegee and finish with a trowel.
- Allow to cure for at least 24 hours before foot traffic.

NOTE The system is applied without catalyst within the application temperature range of 5 to 30 °C. In cool conditions allow for a longer cure time. The optional low-temperature catalyst (A9511, VA5) has been withdrawn from the EU range and is not supplied by Resin Mill Europe BV.

4. Technical data

4.1 Mixed resin, Part A and Part B

Pot life	Cure time	Mixed viscosity	Application temperature	Coverage
70 minutes at 20 °C	24 hours at 20 °C	6000 mPa.s at 20 °C	5 to 30 °C	18 mm depth: 2.2 kg resin and 33 kg blended stone per m²

4.2 Polyurethane base, Part A

Base	Viscosity	Colour	Shelf life	Environmental
Polyol, 100 % solids	2000 mPa.s	Pale yellow	6 months at 5 to 30 °C	See safety data sheet

4.3 Aliphatic isocyanate hardener, Part B

Hardener	Viscosity	Colour	Shelf life	Environmental
Aliphatic, 100 % solids	2000 mPa.s	Pale yellow	6 months at 5 to 30 °C	See safety data sheet

5. Important notes

Aggregate	Use dried aggregate only. Damp aggregate leads to discolouration of the finished surface.
Cure time and pot life	All values are guidelines. Cure time and pot life depend on temperature, the quantity mixed and relative humidity. Resin Mill strongly recommends a test before application.
Storage and handling	Shelf life is six months provided the container is unopened, kept dry and stored at 5 to 30 °C. Part B is moisture-sensitive: keep the original container tightly closed.
Health and safety	Read the hazard labels, the safety data sheets and the PPE guidance before use. Professional use only.

6. Estimated light reflectance values (LRV) per colour blend

LRV (light reflectance value) is the percentage of visible light reflected by a surface, on a scale from 0 (pure black) to 100 (pure white). It is used in architecture and design to judge how light or dark a material appears. Exact values are very difficult to obtain for multi-colour surfaces, so only estimated ranges can be given for the specified colour range.

Colour blend	Estimated LRV range	Note
Amalfi	40 to 50	Estimates for the standard blends; verify on a sample for lighting-critical projects.
Anthracite	10 to 20	
Aspen	30 to 40	
Cappuccino	50 to 60	
Dorset Cove	50 to 60	

Colour blend	Estimated LRV range	Note
Dove Grey	40 to 50	
Evening Rose	20 to 30	
Farmhouse Gold	50 to 60	
Graphite	10 to 20	
Honeycomb	50 to 60	
Ireland Green	30 to 40	
Jet Black	5 to 10	
Kamari Beach	40 to 50	
Meadow	50 to 60	
Mercury	40 to 50	
Merit	30 to 40	
Oyster Pearl	60 to 70	
Olympus	30 to 40	
Platinum	40 to 50	
Porto Fino	50 to 60	
Purity	70 to 80	
Rosso Luna	20 to 30	
Sahara	60 to 70	
Sorrento	50 to 60	
Spring Haze	50 to 60	
Starlight	30 to 40	
Sweet Pea	50 to 60	
Transcendence	20 to 30	
Verona	50 to 60	

7. Supplier

Manufacturer (UK brand owner)	The Resin Mill Ltd, Units 7-8 The Ringway Centre, Beck Road, Huddersfield HD1 5DG, United Kingdom. sales@resinmill.co.uk, +44 (0)1484 400855, www.resinmill.co.uk
Supplier placing the product on the EU market	Resin Mill Europe BV, Diebeke 1A, 9500 Geraardsbergen, Belgium. BE 1038.772.901. hello@resinmill.eu, +32 16 16 10 18. Safety documentation: safety.resinmill.eu

Resin Mill has taken care to ensure that the information in this document is correct and up to date. It is not intended to form part of a contract or to provide a guarantee. Purchasers should contact Resin Mill Europe BV to check whether the information has changed since publication. This EU edition is based on The Resin Mill Ltd technical data sheet "ResinBound UVR Pro" (01-2025); the technical values are unchanged. Version 2.1 replaces version 2.0 of 02-10-2026; only the supplier telephone number has changed.