RESIN MILL EUROPE BV | TECHNICAL DOCUMENTATION

RESIN BOUND PRO UVR, INSTALLATION GUIDE

Step by step, from preparing the base to handing over a finished resin bound surface. Exterior application, professional use.

PRODUCT	DOCUMENT	VERSION
Resin Bound PRO UVR	RME-INS-UVR-01	2.0 (EU edition)
REVISION DATE	**SUPERSEDES**	**LANGUAGE**
18-10-2026	RM Installation Guide, EU edition of 07-08-2026	EN, English master

1. SCOPE AND THE DOCUMENTS THAT GO WITH IT

This guide describes how professional installers lay Resin Bound PRO UVR resin bound surfacing outdoors: preparing the base, setting up, mixing, laying, curing and handing over.

Use it together with the technical data sheet RME-TDS-UVR-01 v2.0, the safety data sheets for Part A and Part B and the PPE guidance RME-PPE-UVR-01 v1.1, all published at safety.resinmill.eu. Where this guide and those documents differ, the safety data sheets and the PPE guidance apply.

KEY POINT Part B (hardener) may cause an allergic skin reaction (H317), is harmful if inhaled (H332) and may cause respiratory irritation (H335). Wear the protective equipment in section 3 from the moment the containers are opened until the tools are clean. Never spray, heat or thin the material with solvent.

CAUTION No catalyst. Resin Bound PRO UVR is applied without catalyst between 5 and 30 °C. The low-temperature catalyst (A9511, VA5) has been withdrawn from the EU range and is not supplied by Resin Mill Europe BV. Do not add any catalyst, accelerator or solvent to the resin.

2. CONDITIONS AND PLANNING

Temperature	Lay only when the air and the base are between 5 and 30 °C and will stay in that range while the surface cures. In cool weather the cure takes longer.
Weather and moisture	The base, the aggregate and the resin must be dry. Do not lay in rain or fog, on a damp base, or when rain is expected before the surface is moisture-tolerant: about 4 hours at 20 °C, longer in cool weather. Use dried aggregate only. Damp aggregate discolours the finished surface.
Finished depth	15 mm for footpaths and patios. 18 mm for driveways and other areas used by cars and light vans. Vehicles over 7.5 tonnes: at least 20 mm, and only on a base designed for that load. Ask Resin Mill Europe BV before quoting such work.
Coverage	At 18 mm: 2.2 kg resin and 33 kg blended stone per m² (RME-TDS-UVR-01). One mix of 100 kg aggregate and one kit covers about 3 m² at 18 mm and about 3.6 m² at 15 mm.
Pot life and working time	Mixed resin: 70 minutes at 20 °C. Once a mix is on the ground, plan about 20 to 30 minutes to spread and trowel it, down to about 10 minutes in hot weather.
Cure	Foot traffic: not before 24 hours at 20 °C. Vehicles: not before 48 hours at 20 °C. Allow longer in cool or damp weather.

All values are guidelines. Pot life and cure depend on temperature, relative humidity and the quantity mixed. Resin Mill strongly recommends a trial before the first application on a project.

3. PROTECTIVE EQUIPMENT AND SITE SAFETY

Summary of RME-PPE-UVR-01 v1.1. Read the full guidance and the first-aid measures before work starts.

Hands	Chemical-protective gloves to EN 374: nitrile from 0.35 mm, or butyl rubber or neoprene from 0.5 mm, breakthrough time at least 8 hours. Cotton or leather work gloves give no protection.
Eyes	Chemical splash goggles to EN 166 when opening, pouring and mixing. Ordinary safety spectacles are not sufficient.
Body	Long sleeves or a disposable coverall; keep forearms covered, also in warm weather.
Feet	Chemically resistant safety footwear to EN ISO 20345. Spiked shoes over them when you walk on the fresh surface.
Breathing	Not normally needed outdoors with trowel application. Where ventilation is poor or the risk assessment requires it: certified respiratory protection, combination filter A2/P2 or higher.

- Have water, soap and an eye-rinse within reach of the mixing zone.
- Mark out the mixing zone and keep bystanders, children and animals away from it and from the fresh surface.
- Do not eat, drink or smoke while working. Wash your hands before every break.
- Never touch fresh material with a bare hand, and do not kneel in or on it.
- Replace contaminated or damaged gloves at once and never re-use disposable gloves.

4. TOOLS AND MATERIALS CHECKLIST

Check that everything is on site before the first mix. Once the resin is mixed there is no time to fetch anything.

Item	What it is for
Forced-action mixer	Mixing resin and aggregate. Place it on a tarpaulin or plastic sheet.
Slow-speed, high-torque drill with mixing paddle	Mixing Part A and Part B.
Power supply	Site supply with residual-current protection, or a generator.
Wheelbarrow with liner	Moving each mix to the area without contaminating it.
Spazzle or rake	Spreading the mix.
Steel finishing trowel, 400 mm, rectangular or bull-nose	Compacting and finishing the surface.
Rubber spatula	Scraping out the Part B container and the mixing container.
Stopwatch	Timing every mix the same.
Chalk	Marking the base in areas of one mix.
Duct tape	Protecting the top edge of edgings and blocks.
Lambswool roller and tray	Applying Primer C on concrete.
Clean cloths and white spirit	Keeping the trowel clean. Never added to the mix.

Item	What it is for
Gas torch	Drying damp spots on the base before laying. Never used on resin or on the fresh surface.
Crushed glass	Anti-slip finish broadcast onto the fresh surface.
Dry sand	5 kg per mix, added during mixing.
Inert absorbent and a spare container	Taking up spills.
Water, soap and eye-rinse	Hygiene and first aid.
Protective equipment	As in section 3, for every person handling the materials.

5. PREPARING THE BASE

5.1 New base

- Set the edgings (kerbs, pin kerbs or block pavers) in sand and cement so that they frame the area. They must stand proud of the finished base by the finished depth of the resin bound layer.
- Excavate to at least 240 mm, and deeper where needed to reach solid ground.
- Fill with open-graded, free-draining crushed stone (MOT Type 3 in the UK specification, or the national equivalent) and compact it with a roller.
- Above the compacted sub-base, leave room for the binder course and the resin bound layer together: about 75 mm with an asphalt binder course, about 140 mm with concrete.
- For a permeable surface, lay a porous asphalt binder course with 10 mm aggregate. A resin bound layer only drains if the layers below it drain too.
- Give concrete bases a brushed finish and a fall, and plan where the water runs off.
- Let a new asphalt or concrete base cure fully before laying the resin bound layer. The time needed depends on temperature and weather.

NOTE Drainage design, falls and any permit required for paving are the responsibility of the designer and the owner under local rules. This guide does not replace them.

5.2 Existing asphalt or concrete

- The resin bound layer cannot be feathered out at the edges. Create an edge to work up to, as high as the finished depth, with a block paver, pin kerb or decorative edging.
- Cut a channel in the existing surface to seat the new edging. A void of up to 50 mm on the inner side can be filled with the resin bound mix during installation, which also locks the edging in place.
- The existing surface must be sound. Open cracks into a V with a stone saw and fill them with a resin crack repair product.
- Raise manhole covers, tap covers and gullies to the new finished level.

5.3 Just before laying

- Remove all dust and debris: jet-wash the base and let it dry completely.
- Where moss or weeds are present, treat the base with a product authorised for that use in the country of installation, following its label.
- Cover the top edge of edgings and blocks with duct tape.
- Prime concrete with Resin Mill Primer C using a lambswool roller. Follow the primer's own label and safety data sheet.

6. SETTING UP

- Place the mixer on a tarpaulin or plastic sheet so that no resin marks the existing surfaces, and mark out the mixing zone.
- Build one stack per mix: four 25 kg bags of aggregate (100 kg), one Part A and one Part B container and 5 kg of dry sand. Count the stacks against the area before you start.
- A colour blend can combine stones of different colours and sizes. The blend is stated at purchase; check the bags against it.
- With more than one pallet of the same blend, build each stack from bags of different pallets to avoid colour changes between mixes.
- Mark the base with chalk in areas that one mix covers: about 3 m² at 18 mm, about 3.6 m² at 15 mm.
- Plan to start at the far end and work towards the exit.

7. MIXING

1. Put the four bags of aggregate in the mixer and run it for about 20 seconds to release the dust.
2. Open the containers. Pour the entire contents of Part B into the Part A container, close to the container to avoid splashes, and scrape Part B out with the rubber spatula. Always use complete kits: Part A and Part B are matched 50:50 by weight.
3. Immerse the paddle fully before you start the drill. Mix at medium speed for 60 to 90 seconds, until the resin is creamy and uniform. Do not over-mix: it shortens the working time.
4. Pour the mixed resin into the turning mixer straight away and scrape the container out with the spatula.
5. Mix resin and aggregate for 2 minutes, timed with the stopwatch. After 1 minute, add 5 kg of dry sand. Mix every batch for exactly the same time: over-mixing darkens the colour.
6. Empty the mixer into the lined wheelbarrow and take the mix to the area.

CAUTION Do not close or seal containers that hold uncured Part B residues or product that has been in contact with water. The reaction with moisture releases carbon dioxide and can build up pressure.

8. LAYING AND FINISHING

- Spread the mix with the spazzle or rake to about 3 mm above the finished level. Start at the far end and work towards the exit.
- Keep the trowel clean with a cloth lightly moistened with white spirit so that the resin does not stick. Never let solvent drip onto the surface or into the mix.
- Trowel with firm pressure to a smooth, compact finish at the finished depth.
- Leave the open edge of each mix loose so that the next mix joins it without a line, and lay the next mix before that edge starts to set.
- What you see after trowelling is how the surface sets. Correct colour differences while the material is fresh: mix a fresh batch with the off-colour material using a shovel, cast small amounts back with the trowel and re-trowel.
- Broadcast crushed glass evenly by hand over the fresh surface as you go, section by section, about every 12 m². Without it the surface can be slippery when wet.
- Walk on the fresh surface only with spiked shoes, and remove the duct tape from the edgings as soon as the area is finished.

9. CURE, CLEAN-UP AND HANDOVER

- Close off the area: no foot traffic for at least 24 hours at 20 °C and no vehicles for at least 48 hours, longer in cool or damp weather. Protect it from rain until it is moisture-tolerant.

- Clean tools before the resin sets. Take up spills with an inert absorbent and keep them out of drains and surface water.
- Dispose of waste and empty containers through an authorised waste contractor under the applicable rules. Do not re-use empty containers.
- Give the owner the aftercare and maintenance guide RME-MNT-UVR-01 and the colour guarantee certificate RME-GUA-UVR-01, filled in with a serial number from Resin Mill Europe BV, and tell them when the surface can be walked and driven on.

10. REVISION RECORD

Version 2.0 replaces the RM Installation Guide, EU edition of 07-08-2026. Changes in this version:

- Catalyst step and A9511 dosing table removed: the catalyst has been withdrawn from the EU range.
- Statement that the build-up avoids planning permission removed; drainage and permits are left to the designer and owner under local rules.
- Mixing, pot life, cure and coverage aligned with RME-TDS-UVR-01 v2.0; protective equipment and site safety aligned with RME-PPE-UVR-01 v1.1.
- Sub-base, mixing and sand addition updated to the current method; tools checklist added; supplier details for the EU.

This guide gives the method recommended by Resin Mill Europe BV. It does not form part of a contract and is not a guarantee. The installer remains responsible for the design and suitability of the base, for the work on site and for compliance with local rules. In case of doubt, contact Resin Mill Europe BV before starting.