

TECHNICAL DATA SHEET

ULTRABIND



Ultrabind, the market-leading resin binder that delivers exceptional strength and durability. This product is easy to use and perfect for a variety of applications.

Ultrabind's unique formulation is engineered with advanced resin technology, providing superior flexural and compressive strength that resists cracking and chipping.

- Superior flexural and compressive strength
- Easy to use and versatile
- Unique formulation with advanced resin technology
- Extreme durability, unparalleled compressive strength

APPEARANCE AND TYPICAL USES:

Resincoat UV Resin Binder is a clear, binding, aliphatic polyurethane resin that permanently binds aggregate together. Final appearance of the unit will depend on what aggregate is used. Typical installations include driveways, walkways and other outdoor spaces.

PACKAGING:

Ultrabind Resin Binder is supplied in either a 7kg or 7.5kg kit, containing units of a two-part polyurethane resin. Each unit consists of a PART A (Resin) and PART B (Activator) in pre-weighed quantities. These will require mixing together before use.

TECHNICAL DATA

Application Thickness	12 - 25mm
Shelf Life	12 months
Consumption Rate	7 - 7.5kg resin per 100kg aggregate
Min/Max Application Temp	5°C - 30°C
Optimal Application Temp	20°C - 25°C (No catalyst required) 5°C - 20°C (Catalyst recommended)
Storage Temp	10°C - 25°C
Viscosity	3000 - 4000cPs @ 25°C

CURING TIMES

Foot traffic at 25°C	12 - 16 hours
Light vehicle traffic at 25°C	24 hours
Heavy vehicle traffic at 25°C	36 hours
Touch dry time at 25°C	1 - 2 hours
Adverse weather / rainfall	Avoid for 24 hours
Curing times will differ when using Ultrabind Catalyst. Refer to Catalyst data sheet for specific temperatures. Note: Ultrabind Catalyst should only be used by experienced resinbound professionals. It is not required or compatible with Ultrabind DIY kits.	

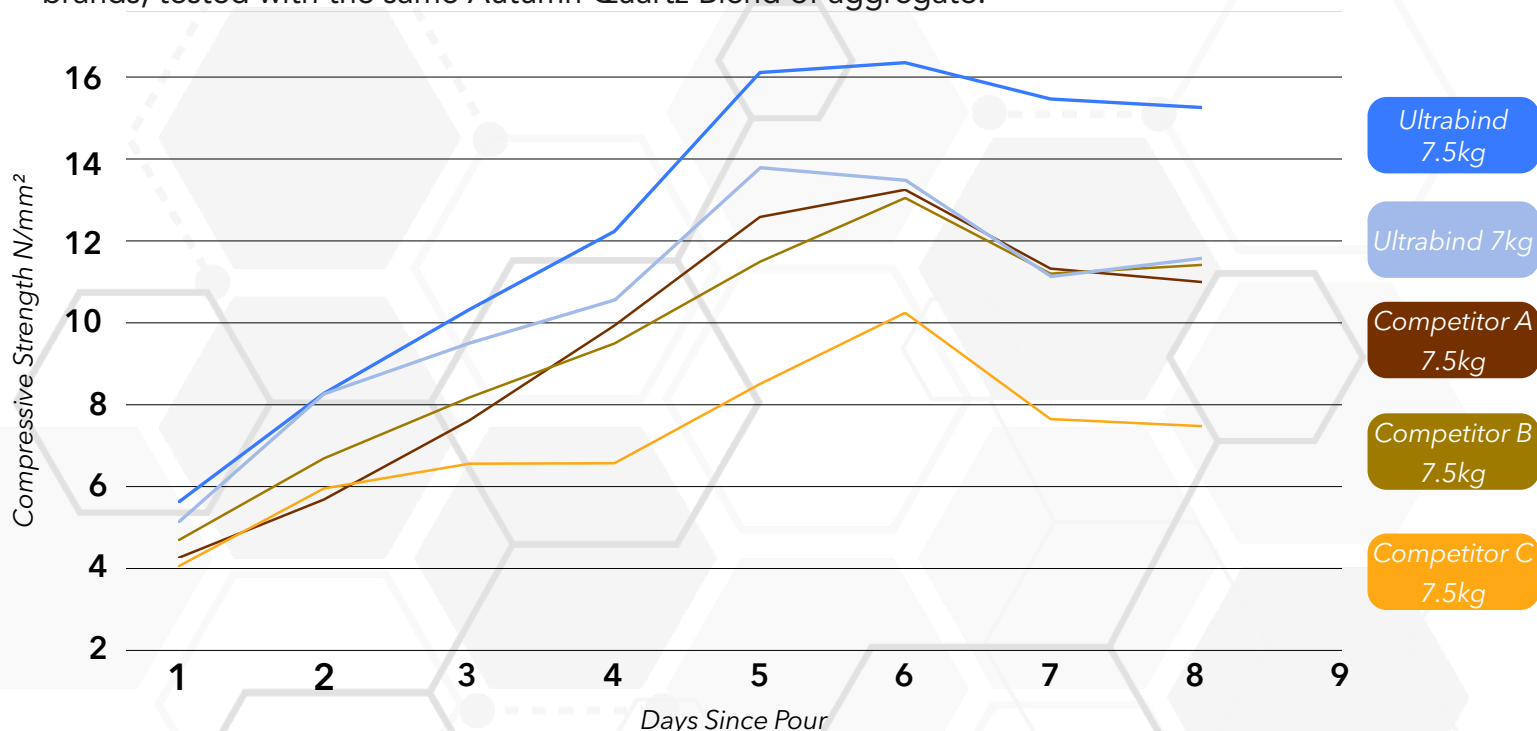
GENERAL GUIDANCE NOTICE

This Data Sheet is for general purposes and may contain information which is not appropriate for certain conditions of use. All information contained within is accordingly given freely by Resincoat in good faith, without guarantee. Further information on this product and the data contained within this sheet can be obtained from our technical department. You can call us on 0330 0570 695 where we will provide free technical advice for your project.

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COMPRESSIVE STRENGTH:

Ultrabind boasts an unparalleled compressive strength, ensuring our resin bound surfaces provide a long life. Ultrabind resin was found to offer the highest level of durability when compared to other brands, tested with the same Autumn Quartz Blend of aggregate.



SURFACE PREPARATION:

Concrete -

Clean the concrete surface: The concrete surface needs to be thoroughly cleaned and free of any debris, dirt, oil, or grease. Resincoat Degreaser or Etch and Clean is ideal for this purpose.

Repair any damages: Any cracks, potholes or other damages in the concrete should be repaired before applying the Ultrabind system. This will ensure that the surface is smooth and even, preventing any further damage to the resin bound surface. We recommend the use of Resincoat Concrete Repair products for this.

Allow the concrete to dry completely: After cleaning and repairing the concrete surface, it is important to allow it to dry completely before applying the system. This may take several hours or even a day or two, depending on the weather conditions.

Apply the primer: Once the concrete surface is clean and dry, Ultrabind PrimeX should be applied to ensure good adhesion of the resin bound surface to the concrete. The primer will also help to seal the surface and prevent any moisture from penetrating the concrete.

Asphalt/Tarmac -

Newly laid asphalt should be allowed to oxidise for a minimum of seven days.

Thorough cleaning of any debris, dirt, grease or oil should be performed. Resincoat Degreaser is ideal for this.

Repair any surface damages. Deep cracks or damage may warrant further assessment to ensure the base is suitable for Ultrabind. Resincoat Repair products are recommended.

DO NOT use a primer. Apply Ultrabind directly to the asphalt/tarmac.

Ensure surface temperatures are not extremely high during application due to the dark colour of tarmac and asphalt.



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MIXING:

- Part A should be mixed at a slow speed until homogenous. Catalyst should be added to Part A at this point if it is included. Note: Ultrabind Catalyst is for professional use and is not compatible with Ultrabind DIY kits.
- Add the full amount of Part B and mix for a further 90 seconds. The result should be a pearly, smooth viscous liquid.
- Meanwhile, the aggregate should be added to the forced action mixer and blended dry for 30 - 60 seconds.
- Add the full amount of the blended resin to the aggregate, taking care to scrape the side of the bucket. Continue mixing until the aggregate is evenly coated with resin.
- Discharge into bucket or wheelbarrow, ready for application.

Please Note: product has a pot life of 10 minutes and should be immediately mixed with aggregate. The working life of this product is 20 minutes at 20°C.

APPLICATION:

- Spread the resin coated aggregate by using a rake, shovel or similar to achieve roughly the require depth (A typical system would be applied at 15 - 18mm).
- Level this by your preferred method of trowelling or tamping (Typical method: side to side).
- Compact and level by applying firm pressure on your flat trowel and work at 90° to the previous step (from front to back).
- Ensure to keep your tools clean, and lubricate the trowel using Ultrabind Glide, for best results.
- Keep a loose, uncompacted edge to enable a seamless transition into your next batch.

When working with 7 or 7.5kg kits and using a Forced Action Mixer, we recommend seeking the advice of a trained professional before attempting a large installation. It is recommended that you have a team of 3 people to complete the installation smoothly. A typical set up would be to designate one person to mixing, and two others to applying and trowelling the aggregate.

HEALTH & SAFETY:

Please ensure that you are trained and/or familiar with the use of all equipment present. Consults the relevant training materials if unsure. We always recommend the use of work gloves, and the use of protective glasses/goggles whilst using the mixing equipment and working with resins. Should exposure to the resins occur, ensure skin is washed thoroughly with soap and water. Ensure your team are competent and prepared for the job at hand before undertaking this project. We strongly advise the implementation of a thorough risk assessment before commencing work and consult the material safety data sheet available online, or by contacting a member of our sales team on 0330 0570 695.