Vuba
Resin Binder MT
Technical Datasheet

Moisture Tolerant Aliphatic Polyurethane Resin Binder

Moisture tolerant resin binder for use in conditions of high relative ambient humidity. Vuba Resin Binder MT is a two-component aliphatic (UV Resistant) polyurethane resin for use as a stone and rubber binder. It's main feature being highly hydrophobic; capable of repelling moisture. Also, being highly over-indexed, thermosetting resin. Whilst maintaing permeability and being SuDS compliant.

Useage Guidance

Three principles create the high level of hydrophobicity of VubaResin Binder MT and it is important these are observed during usage. The first is the rate of reaction, this is controlled upon catalysis during manufacture and further catalyst should not be added. The second is the ratio of hydrophobic additives in the product, and therefore the product should not be diluted. The third is the ratio of A to B, so it is important this ratio is not altered for application.

Flexural Strength

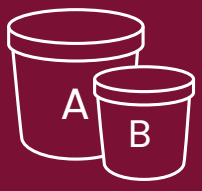
Vuba conducted a Flexural Strength Test on our Vuba MT Resin Bound Binder. A three-point bend test, conducted by a UKAS approved lab to BS EN 13892-2:2022 standards, evaluated the materials' resistance to bending forces. We also tested performance when moisture damaged. Results showed significant highs for Vuba MT Resin Bound Binder, with flexural strength scores nearly double that of competitors - a high score of **8.66MPa** was achieved. The moisture damaged samples resulted in being nearly 5 times stronger than competitors as well. These impartial results reinforce Vuba's reputation for exceptional quality and durability in the industry.

Technical Data

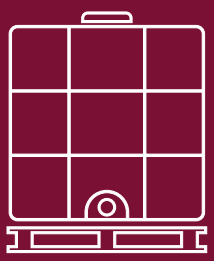
Properties	Value
Type of Resin	Polyurethane Resin
UV Stability	UV Resistant
Flexural Strength*	8.66 MPa
Erosion Index*	0.8
Fire Rating*	BFL-s1
Full Chemical Cure	8-10 Days
Processing temperature	5°C - 30°C

* When combined with aggregates in a resin bound system.

Available Sizes



6.75kg or 7.25kg
Vuba Resin Binder



IBC Bulk Load
1000kg

Official Test Results

8.66MPa
on a **Flexural Strength** Test

20% stronger when exposed to fine amounts of moisture

0.8
Erosion Index
which is a perfect score on a Shaling Test.

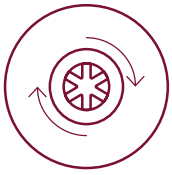
Benefits



Moisture Tolerant
Higher resistance to moisture, maintaining a high strength.



Vehicle Traffic
Suitable to take vehicle weights and trafficked areas.



Shaling Resistant
We tested our products with a scuffing test and achieved a 0.0 Erosion Index.



UV Stable
Completely UV stable, aliphatic Resin.



Long Term Flexural Resistance
High flexural strength and durability.

Certification

Flood Innovation Centre · Porous Paving SuDS Compliant · The Sunday Times Hundred 2025 · FEGE Growth 100 2023

Moisture Damage

White colouring and foaming on the surface is symptomatic signs of moisture damage that is most commonly associated with moisture damage in resin bound surfacing. However, it is possible for projects to have suffered moisture damage but it is not visible on the surface, only after taking a core sample. Different types of moisture damage cause different signs of failure. Although resistant to moisture damage, our binder can still suffer a loss of binder from precipitation, and care should be taken to avoid applying this product in rainy conditions.

Shaling Resistance

We sent Vuba MT Resin Bound Binder for a Determination of Scuffing Resistance Test, which assesses the Resin Bound Surfacing's ability to withstand shaling from an abrasive wheel, a crucial test in our industry. We found that Vuba MT Binder exhibited no loss in texture depth after exposure to abrasion, scoring a **0.8 Erosion Index.** With our industry lacking a British Standard and misinformation rampant, we value the clarity provided by this genuine test offering contractors a reliable benchmark for assessing product quality.

Curing Times

The curing time is determined by the inclusion of Dibutyltin Dilaurate Catalyst. Please see the 'Vuba Catalyst' Technical Datasheet for more information.

Application Guidance

See the 'Vuba MT Resin Bound System' Technical Datasheet and Method Statements for advice on the correct application technique.

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This product is highly over-indexed in favour of the aliphatic isocyanate component.

Humidity

Vuba Resin Binder MT is capable of withstanding a humidity of >95%.

Catalyst Addition

Do not add any form of catalyst to this product.



Limitations

The product is designed to perform as a binder for resin surfacing in conditions of high humidity, or in the possibility of light precipitation. All projects should be planned to take place during good weather.

Packaging Information

Available in a 7.25kg and 6.75kg size, and a 1000kg IBC Bulk Load.

Storage

Store above 7°C temperature and not in direct sunlight. Ensure contain is unopened and the seal is not broken. Store for 3 months.

Disposal Considerations

Normally the Part A resin will be mixed in its own container with Part B. When this is done correctly the resultant material in the container is inert and the label must be defaced. The container and remnant may be disposed of as normal industrial waste. Any uncured material must be disposed as hazardous waste. Please consider the regional or national regulations regarding disposal.