

# Vuba Stone

## Vuba Moisture Tolerant Resin

### Technical Datasheet



#### 7kg MT Vuba World Resin is a UV Resistant Hybrid Polyurethane Resin Binder

MT Vuba World Resin is an aliphatic, polyurethane resin binder that comes in 2 parts. Part A (Resin) and Part B (Hardener) and is for use as a stone encapsulation binder for both pedestrian and vehicle trafficked areas.

#### Flexural Strength

Vuba conducted a Flexural Strength Test on our MT Vuba World Resin. 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 MT Vuba World Resin with flexural strength scores nearly double that of competitors - a high score of **9.376MPa** was achieved.

The moisture damaged samples resulted in being nearly 280% stronger than competitors as well. These impartial results reinforce Vuba's reputation for exceptional quality and durability in the industry.

#### Shaling Resistance

We sent MT Vuba World Resin for a Determination of Scuffing Resistance Test, which assesses the Vuba Stone Surfacing's ability to withstand shaling from an abrasive wheel, a crucial test in our industry. We found that MT Vuba World Resin exhibited no loss in texture depth after exposure to abrasion, scoring a 0.8 Erosion Index. 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.

#### Technical Data

Properties	Value
Type of Resin	Polyurethane Resin
UV Stability	UV Resistant
Flexural Strength*	9.376 MPa
Maximum Humidity	90%
Erosion Index*	0.0
Fire Rating*	BFL-s1
Full Chemical Cure	8-10 Days
Processing temperature	41°F - 86°F

\* When combined with aggregates in a Vuba Stone system.

### Available Sizes

7kg MT Vuba World Resin

IBC Bulk Load 1000kg

### Official Test Results

0.8

## Erosion Index

which is a perfect score on a Shaling Test.

### Benefits

**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.

**5 Year Warranty**  
Going up to **10 years** when installed on VubaMac.

#### Certification





### Application Guidance

Please see page 3 below for advice on the correct application technique.

### Storage

Store above 44.6°F temperature and not in direct sunlight. Ensure tub is unopened and the seal is not broken. Store for up to 12 months.

### Health and Safety

**Part A (Resin)** is not classified as a dangerous substance; however, the wearing of goggles is to be recommended. **Part B (Hardener)** contains a non-volatile isocyanate. Avoid prolonged contact with skin. In cases of contact with eyes, flush out with excess water and seek medical attention. Wear goggles.

### 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.

### Packaging Information

Available in a 7kg size, and a 1000kg IBC Bulk Load.

# Mixing Instructions

## Checklist Before Mixing:

1. Ensure each mix is set out in preparation to the mixing area.
2. Mark out the estimated coverage rate of each mix onto the surface.
3. Ensure the resin tubs are unopened and the aggregate bags are dry.

## Mixing Guide:



**1.** Pour the Part A and Part B components into a pail and mix them together for 90 seconds until a homogeneous color has been achieved.



**2.** While the resin components are mixing, add the 4 bags of aggregates into the forced action mixer, from large aggregates to small, in that order.



**3.** Once the aggregates are in, pour in the resin mixture, making sure all the aggregates are encapsulated in the resin.



**4.** Once the resin and aggregates have mixed, add the Quartz and allow the mixer to continue rotating for another 90 seconds.

# Application Guide

**1.** Spread the resin mix using the Screed Box. Adjust the opening of the spreader to the required depth + 10% so that the additional % of depth can be compacted into the resin system.



**2.** Once spread, compact at a 90° angle using the steel trowel until the mix is fully compacted and compressed with the previous base. Be careful not to overwork the surface.

**3.** Use a power trowel to further compact the resin mix and achieve a smooth, even finish. Ensure the surface is fully compressed and level while avoiding overworking the material.



## Expert Advice

1. Double check that the size and color of the aggregates are properly placed in the specified order on the mixer.
2. Make sure the mixer is on before adding aggregates.
3. Make sure you have added the catalyst to each of the Part A resins.
4. Mix the materials for 3 minutes, maintaining consistency and precision over time.
5. Perform routine cleaning of the mixer every 10 mixes to prevent old aggregates from affecting new mixes.

