

PRODUCT DATA SHEET

Resin Bound 100



Decorative Stone Carpet Flooring for Indoor and Outdoor Flooring Using Aggregates

Description

High quality, UV resistant, clear, two component non-yellowing resin Stone Carpet system. Used as binding additive, with aggregates. Once cured, it creates a finish product with solid mass that is distinguished for its excellent adhesion to all sound substrates, with tensile strength greater than concrete. The final finish can be made customized to achieve porous or non-porous surface as per the requirement.

Advantages

- ✓ Excellent mechanical strength and long service life
- ✓ Resistance to permanent immersion in chlorinated water
- ✓ Resistance to most chemicals and seawater
- ✓ Resistance when applied to exterior surfaces and temperature variations
- ✓ Highlights the natural beauty and colors of the quartz aggregates
- ✓ Porous and Non-Porous finishes can be achieved
- ✓ Highly versatile design achievable with GAC aggregates

Mixing Ratio – Consumption

Depending on the coating thickness of the mixture and the grain size of the aggregates.
Recommended application thickness: Up to 5mm for grain sizes between 0.7-2mm thick , and up to 10-20mm for grain sizes between 2-5mm thick.

Rate of Consumptions:

< 0.7-2mm	1mm thickness	2.4-2.8kg/m2
> 2-5mm	1mm thickness	1.8-2.0kg/m2

Application Process

1. Surface preparation

All application surfaces must be flat, sound, free from loose materials, dust, grease, oils, and they also must be completely dry. The moisture content of the substrate should not exceed 5% and the relative humidity in the application area should be less than 65%.

The application of the mixture should be done only on properly prepared surfaces. If applied on floor surfaces that are not level or flat and require to be leveled in thickness between 1-2cm thick, it is recommended to use the flexible and fast setting cementitious adhesive Base Crete 200. If the leveling required is of higher thicknesses, from 2-5cm thick for example, use the fiber-reinforced cement screed, after priming with the acrylic emulsion

additive Primex GP 100. Pour the cement screed as long as the emulsion additive is still fresh (wet) in order it to function as bonding bridge. Smooth or non-absorbent surfaces, are properly prepared using the Primex EP 100.

2. Application

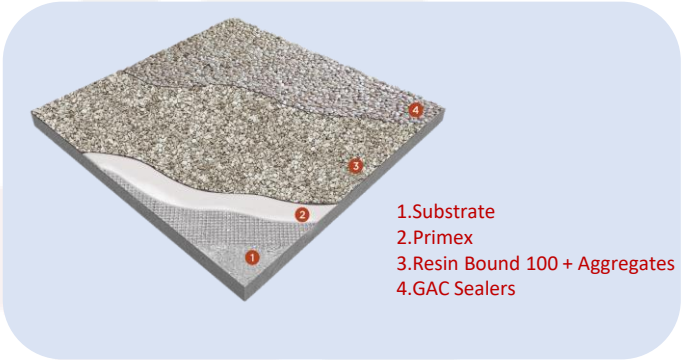
Mixing

Empty the content of container B into container A. Mix with a low-rpm drill for 2-3 minutes until the mixture is homogenized. Then, in a suitable size container, empty the homogenized GAC Resin mixture and add the aggregates. Mix until completely homogenized. The mixing ratio of Resin Bound 100 with aggregates for grain sizes exceeding 2mm is 7-10/100, while for grain sizes below 2mm the mixing ratio is 10-12/100 by weight.

Application

Apply the mixture (Resin Bound 100 + Aggregate) using a metal trowel with rounded edges. Press the mixture onto the application surface, taking care not to leave any gaps and/or any excess product. After completing the application and once the surface is walkable and clean from any dust (after at least 24 hours), apply GAC sealer. Apply either of them to create a strong protective film with strong resistance to UV radiation and stresses, especially on exterior surfaces.

Recommended application thickness for stone carpets: Up to 5mm for grain sizes between 0.7-2mm and up to 10-20mm for grain sizes between 2-5mm.



Storage

Store in tightly closed containers, in dry and shaded places, for at least 12 months from production date.

Safety, Ecology and Disposal

Avoid contact with skin and eyes. Use protective gloves, clothing and goggles. For more information, please refer to Product Safety Information Form. (MSDS)

Our recommendations concerning the technical application of the product, whether through oral or written communication or through demonstration, are given to the best of our current knowledge; however, any such instruction shall be without commitment, including where any protective rights of third parties are involved. They do not free you of the obligation to check the products supplied by us for their suitability for the procedures and applications envisaged. The (intended) use and application of the products are beyond our control. They are therefore your personal responsibility. In the event that GAC proves liable, such liability shall be limited in all cases of damage to a sum not exceeding the actual value of the goods supplied by us and used by you. It goes without saying that we guarantee the good quality of our products, in accordance with the standards set out in our General Terms of Sale and Delivery.

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Two component UV Resistant PU Binder

Characteristic Data

Chemical base	Two component resin Non-Yellowing UV Resistant PU Binder
Color (A+B)	Transparent
Bulk density of mixture	1.05±0.04kg/lt
Mixing ratio A:B	As mentioned on the pack
Pot life	30-40 minutes at +20°C
Application temperature	From +10°C to +40°C
Set time	4-6 hours at 20°C
Full cure	3-7 days, depending on the coating thickness of the product, the temperature, and the humidity of the environment

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