

vdw 520

EP Aggregate Paving Binder

for light traffic loads



Can be used for tree pit surfacing, block and slab paving borders, area surfacing, lawn edging and spray protection strips.

- For highly waterpermeable areas
- Trafficable
- High UV resistance
- Very high resistance to yellowing
- Suitable for damp mineral materials
- Highly suitable for glass chippings
- Wide range of design options



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Product and Application Information

How to use vdw 520 EP Paving Binder

vdw 520 EP Aggregate Binder is designed to make up a no-fines mortar of approx. 30 mm layers, when mixed with graded dust-free mineral materials of particle sizes 1–3 mm, 2–4 mm, 2–5 mm, 5–8 mm, 8–11 mm and 8–16 mm. The contents of one unit can bind about 25 kg maximum of mineral material (20 kg max. of glass chippings).

Site requirements:

For pedestrian areas: A stable and well compacted sand / gravel bed. The depth of **vdw 520 EP Aggregate Binder** after compaction and finishing should be min. 3 cm.

For vehicle traffic: The product must be laid on a permeable concrete or mortar bed. We recommend **vdw 470 Cement Based Pervasive Mortar for landscaping** or **vdw 480 Bedding Compound**.

The substructure must be designed to accommodate the anticipated loads. The design level, slope and flatness must be guaranteed. Any contaminants must be completely removed.

Tools: Pan mixer, paddle mixer or suitable gravity mixer, mortar bucket, shovel, broom, mortar smoothing and screeding tools.

Preparation: Clean the base compacted sand / gravel / concrete / mortar surfaces, any joint sides and remove **any** unsound, non-compacted materials and contaminants. Mask adjacent areas that are not to be jointed in order to prevent spots and other stains.

Test area: Due to the variable nature of adjacent materials, changes in appearance such as darkening and / or staining (which may be irreversible) can occur due to contact between natural stone or concrete paving surfaces and the **vdw 520 EP Aggregate Binder**. **Always prepare a test area first, particularly with sensitive materials!**

Material preparation:

Add all of both binder components A+B to the aggregates in the pail or mixer and mix thoroughly until homogeneous. Then decant the mixed product into a clean container and mix well again. **Do not add any additional water.**

Mixing time: Minimum 5 minutes!

Application: Apply the prepared mortar onto the prepared substrate. Spread and level off to the correct thickness with a suitable screeding batten. Compact and smooth the surface with a trowel.

Curing: Cordon off the freshly applied areas and protect from rain for at least 12 hours (at 20°C). Then the areas can be walked over carefully. They can be fully released to traffic after 7 days. In principle, a strength test should be carried out on the areas before they are put into use.

Technical data: vdw 520 EP Aggregate Binder

Product Description

Binder for production of water permeable paving mortars.

Binder: Two-component, solvent-free epoxy resin binder with special additives

Packaging: 1.25 kg PE-combi bottle or 5 kg PE-combi canisters

Material characteristics

Density: 1,15 g/cm³

Shelf life: 1 year

Directions for use: vdw 520 EP Aggregate Binder

Notes:

- Experience has shown that the binder can cause effects such as darkening in some mineral materials. A slight yellowing effect can occur on bright white materials. These phenomena are due to contact between **vdw 520 EP Aggregate Binder** and the mineral material, not to faulty materials or workmanship.
- It is important to apply a **test area** on sensitive types of stone. These test areas can act as control surfaces.
- If the mortar is used as a joint filler in combination with permeable paving slabs, more pronounced and longer-lasting colour deepening may occur and may also be irreversible. On very highly absorbent paving such as some sandstones, moisture rising from the bedding may also cause darkening.

- **All time-related information in this Technical Datasheet relates to 20°C and 65% relative humidity** (higher temperatures generally reduce these times and lower temperatures will extend them).

Typical applications



Crazy paving and paved edges / borders:

For paving edging **vdw 520 EP Aggregate Binders** provide the same colour range as our jointing systems. It is also ideal for use as a highly durable and decorative paving joint mortar, particularly for crazy paving.



Tree pit surfacing:

Due to its high water permeability, **vdw 520 EP Aggregate Binder** is the ideal product for tree pit surfacing. Its outstanding appearance, ease of cleaning and exceptional durability, keeps the tree pit surface looking like new even after years of service.



Complex designs and curved areas:

Curved and complex design areas do not have to be paved with mosaic tiles. With **vdw 520 EP Aggregate Binder** you have a decorative system available.



Support edging for paved areas:

Material joints can be easily bridged. In combination with providing the necessary rear backing support / haunching. For example, lawn edgings which do not jolt the mower are easy to form, and the water permeability of **vdw 520 EP Aggregate Binder** means that the grass edges do not lose their lush green colour in summer.

Safety information

Health and safety:

- When using **vdw 520 Aggregate Binder** avoid contact with skin and wear safety goggles and protective gloves - PPE.
- Provide adequate ventilation when using in enclosed areas.

Environmental information

Disposal:

- Unmixed material requires disposal as special waste.
- Mixed, cured material is inert and does not require special disposal.

Contact:

This information is intended to give advice based on our testing and experience. We cannot guarantee results in any individual circumstances due to the variety of potential situations and the storage and application conditions for our products which are beyond our control. Specific project testing should be carried out where required. The information on this TDS is subject to amendment and the user must ensure they have the latest information.

No direct legal liability can be assumed based on the data in this product information sheet, nor from any verbal advice unless this advice is expressly confirmed by us in writing. This product information sheet replaces all previous versions.

Our General Conditions of Sale and Supply apply.

Rheinbach-Flerzheim, November 2017

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