



Xtreme Plus/VDW 855 grouting mortar

Construction Site Requirements:

A stable, load-bearing structure, a water-permeable sub-base and the paving layer must all be correctly designed and installed for the anticipated traffic loads and in accordance with AMTS. Xtreme Plus/VDW 855 is designed for small up to large format and cannot be used to compensate any settlement of the substructure, or for the sealing and waterproofing of any surfaces. Movement joints must be installed as necessary to comply with the required structural design and any anticipated levels of movement. The Xtreme Plus/VDW855 mortar can be applied on damp / wet paving and in high humidity and even in the rain.

Preparation:

Preparation / Pre-wetting: Clean the surface thoroughly of all dirt, cement residues, organic materials or any other possible contaminants including cleaning out all of the joints to the required depth. Thoroughly pre-wet the surface of the paving and mask adjacent surfaces which are not to be jointed. Mask adjacent areas that are not to be jointed. Always use clean and fresh tap water!

Mixing:

Pre-mix the Xtreme Plus VDW 855 resin-coated aggregate (component A) materials in the pail. Then add all of the liquid hardener (component B) from the bottle in the pail and mix with the drill and spherical paddle mixers until smooth and homogeneous. Mixing time: 3 – 5 minutes. Any material that is not thoroughly mixed must not be used. No water should be added during the mixing process.

Filling the joints:

Apply immediately after mixing, by pouring the Xtreme Plus VDW 855 directly onto the pre-wetted surface. Work the self-compacting material thoroughly into the joints using a rubber squeegee. If the viscosity of the product diminishes re-moisten by spraying lightly with water from a hose. The paved area must be kept constantly wet during application. We recommend working from the highest to the lowest points. Do not mix part units of the product. Any unmixed material must not be used.

Brushing off:

Remove any excess Xtreme Plus/VDW 855 mortar residue from the area after about 5 min. (immediately at temperatures over 20 °C / 68 °F) spraying lightly with water from a hose at a distance of about 25 cm. Avoid washing material out of the joints. Be careful to clean the paved surface towards areas not yet jointed and do not allow any water containing residues to pond, stand, dry out or run-off over completed areas. Finally remove any remaining fine residues, again with a damp coconut fiber brush – do not brush any residual dry material into any unfilled joints. Clean this brush in water frequently.

Important information:

Cordon off the freshly applied areas for a period of min. 24 hours, or until the paving surface is no longer tacky. Then the areas can be walked over. The area can be fully released to vehicular traffic after 3 – 5 days, when fully hardened. In general, a strength test should be carried out before final clearance of the area. A very thin film of the resin binder will remain on rough surfaces or any surfaces that are **not** cleaned thoroughly. This film will disappear after a period of exposure to traffic and weathering.

Technical data:

Application time

approx. 1 hour at 20 °C | 68 °F application temperature

Application temperature

2–26 °C | 37–80 °F, do not lay onto frozen ground.

Compressive strength:

approx. 45,0 N/mm² / 6520 psi

Flexural strength:

approx. 15,0 N/mm² / 2175 psi

E-Modulus:

8500 N/mm²

Dry density

Set mortar density: 1,62 g/cm³

Water permeability:

2,0 x 10⁻⁵ m/s (0,23 l/m²/min at 20 % joints)

Storage life

1 year, if stored unopened in sealed and undamaged packaging, kept dry and frost-free. Do not store at temperatures above 20 °C / 68 °F