



Our Xtreme can be applied in the rain

## Xtreme VDW 850 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 /VDW 850 Plus 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 /VDW850 Plus 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 VDW 850 Plus 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 VDW 850 Plus 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 /VDW 850 Plus mortar residue from the area after about 5 min. (immediately at temperatures over 20 °C / 68 °F) using a damp coconut fiber brush and then 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 lightly spray of water and damp coconut fiber brush – do not brush any residual dry material into any unfilled joints. Clean this brush in water frequently.

### Important information:

Remain 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. 25,0 N/mm<sup>2</sup> / 3620 psi

#### Flexural strength:

approx. 10,0 N/mm<sup>2</sup>/ 1450 psi

#### E-Modulus:

5500 N/mm<sup>2</sup>

#### Dry density

Set mortar density: 1,62 g/cm<sup>3</sup>

#### Water permeability:

106.2 iph approx. 0.06 gal/min/sqft for a joint fraction of 10 %

#### 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