

VX GroutMaster 788UW is a special nonshrink mortar (cement + sand) that is easy to apply, has high compressive strength, and can be used underwater. When applied underwater, this material will not experience significant "washout" of the cement. VX GroutMaster 788UW is used for applications such as underwater or tidal zone flow or pump grouting, bridge column grouting, pier pillars, concrete piles, slipways, and dams

## ADVANTAGE

- Anti-washout.
- Effectively displaces water.
- Gas expansion system compensates for shrinkage and settlement in the plastic state.
- High initial and final strength with resistance to freeze-thaw cycles.
- Chloride-free.
- Easy to apply underwater.

## PRODUCT SPECIFICATION

<b>Type</b>	Under water grouting non shrink
<b>Form</b>	Powder
<b>Colour</b>	Grey (Natural)
<b>Application thickness</b>	≥ 5mm
<b>Water consumption</b>	6 lt / zak
<b>Drying Time Initial setting (Under Water)</b>	~ 6 - 8 hours
<b>Chloride content (as % of mass of cement)</b>	< 0.1%

## PACKAGING

VX GroutMaster 788UW is packaged in 25 kg plastic bags with separate inner bags.

## SHELF LIFE & STORAGE

VX GroutMaster 788UW has a shelf life of at least 6 months, provided it is stored undamaged in a closed, dry, cool place and protected from direct sunlight exposure.

## HEALTH & SAFETY

VX GroutMaster 788UW has a relatively high alkaline content, so the use of gloves is recommended during handling



### TECHNICAL DATA

<b>Density</b> Dry Wet	1.4 (± 0.1) gr/ml 1.9 (± 0.1) gr/ml
<b>Bond strength to concrete (ASTM D 4541)</b>	~ 0.8 N/mm <sup>2</sup>
<b>Compressive strength (ASTM C-109)</b> 1 day 7 days 28 days	~ 25 N/mm <sup>2</sup> ~ 48 N/mm <sup>2</sup> ~ 65 N/mm <sup>2</sup>
<b>Expansion (ASTM C940-98a)</b>	Controlled positive expansion

## APPLICATION

### I. SURFACE PREPARATION

- The surface must be clean and free from any contaminants, especially moss, oil, grease, or curing compounds.
- If the concrete surface is damaged or weakened, it must be removed or chipped away until a solid base is reached.
- Permanently submerged substrates should be cleaned with high-pressure water, substrates that are not submerged or are submerged for long periods can be cleaned using the same technique.

### II. MOLD DESIGN

- Molds or formworks must be constructed to be leak-proof, as VX GroutMaster 788UW is a flowing grouting material.
- To achieve leak-proof molds or formworks, rubber strips or silicone sealants can be used beneath and between the formwork joints.

### III. MIXING

- VX GroutMaster 788UW is mixed in one container using a low-speed electric motor mixer equipped with a spiral stirrer. Large capacity concrete mixers can be used if large-volume mixing is required simultaneously.
- First, add approximately <sup>3</sup>/<sub>4</sub> of the required water into the container. The amount of water needed theoretically depends on the desired consistency and the temperature in the field.
- Slowly add VX GroutMaster 788UW to the container while continuing to run the mixer until all the ingredients are evenly mixed. Ensure no lumps are left, especially at the bottom of the container.
- Slowly add the remaining water until the desired consistency is achieved.
- Never add cement or sand.

Disclaimer: The information and the recommendations relating to the application and end use of this product are given in good faith and are based on the information provided by the manufacturer of the product and/or the Company's current knowledge and experience in connection with the product when properly stored, handled and applied under normal conditions and no liability of final function at the job site is assumed. In practice, the differences in materials substrates and actual size conditions are such that no warranty in respect of merchantability of or fitness for particular purpose, nor any liability by the Company will be accepted for misuse, misreading or derivation from recommended guidelines in respect of this product and the user shall determine the suitability of the product for his intended use and all risks and liability in connection therewith. The information contained in the brochure may change at any time without notice.



**IV. POURING/APPLICATION**

- Pour VX GroutMaster 788UW after homogeneous mixing to achieve optimal results.
- The mixture of VX GroutMaster 788UW should be poured or pumped through a flexible tube, with a minimum diameter of 50 mm to the lowest point in the mold.

**V. TIDYING UP**

- No maintenance will be required in completely submerged situations.
- However, when cast above water, exposed areas must be thoroughly treated with VX GroutMaster 788UW through continuous water application or wet burlap.

**VI. FINISHING**

- Due to its waterproof nature, equipment used for VX GroutMaster 788UW may be difficult to clean.
- The use of high-pressure water for cleaning purposes will help.