

# TEKNODURE AW

## Anti-Washout Cementitious Grout

### DESCRIPTION

TEKNODURE AW is a polymer-enhanced cementitious grout which contains special additives to provide anti-washout properties when placed under water. It is a single component product which is mixed with water to achieve a fluid grout that is suitable for hand or pump placement. The anti-washout polymer binds the cement particles to the fine micro silica aggregates to ensure the placed grout remains homogeneous when under water.

### USES

TEKNODURE AW is used in underwater applications or tidal zones. Applications include the grouting of piles, steel columns, pre-cast sections and grouting of other elements in underwater applications. It may also be used as a suitable void filler for grouting behind sea walls and in pre-cast situations.

### ADVANTAGES

- Excellent anti-washout properties.
- High compressive strength.
- Chloride free.
- Fluid, pumpable consistency.

Property	Value
Compressive Strength	10 MPa @ 1 Day
	20 MPa @ 3 Days
	32 MPa @ 7 Days
	50 MPa @ 28 Days
Flow CM	35 - 40
Set Time	Approximately 4hrs

### PROCEDURE

**Surface Preparation:** Ensure all surfaces are clean and free from contamination, such as oil or grease. All loose material should be removed and is important to ensure that marine growth is completely removed. Surface preparation in underwater situations should be carried out using high-pressure water jet to remove contaminants and effectively abrade the surface.

**Mixing:** TEKNODURE AW should be mixed with clean water, 8ltrs of clean water should be added to a suitable mixing vessel and the powder should be slowly added to the water whilst mixing. Mixing should continue until a uniform consistency has been achieved. For larger applications, TEKNODURE AW should be mixed in a suitable mixer/pump unit including high shear and colloidal mixer and helical screw diaphragm and pistol pumps.

**Application:** The mixed material should be placed within 15 minutes of mixing to ensure that high flow properties are retained. If the grout is to be pumped in larger volumes, in under water applications, then a tremie pipe should be used. The tremie pipe should be inserted to the full depth of the element to be grouted, and once grouting commences the nozzle should remain in the placed grout and be withdrawn slowly as the grout level rises, until the element is fully grouted.

**Equipment Cleaning:** Clean tools and equipment immediately using clean water.

**Curing:** No special curing is required when placing under water.

## PACKAGING & COVERAGE

**Pack Size:** TEKNODURE AW is supplied in a 20Kg pack.

**Yield:** 1 20kg pack will yield approximately 15ltrs of mixed grout.

## STORAGE & SHELF LIFE

TEKNODURE AW should be stored in clean dry conditions at temperatures between 6°C and 30°C. When stored in unopened bags, TEKNODURE AW will have a shelf life of 12 months.

## HEALTH & SAFETY

See separate material safety datasheet.

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