



Approved Quality
Management System
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Lloyds Register-Certificate
No. MEL 0927759

Technical Data Sheet
SEASHIELD 510
UNDERWATER GROUT

Description:	Denso Seashield 510 Underwater (UW) Grout is an underwater pumpable cementitious based non shrink grout. It is specially formulated for minimal washout and is salt water resistant.
Composition:	A specific blend of Portland cement, specially graded aggregates and admixtures designed for controlled expansion, cohesiveness and maximum fluidity and strength. A cementitious based non shrink grout for use in underwater repairs such as pile restoration.
Characteristics:	<ul style="list-style-type: none"> • free flowing, easily pumped for underwater placement • thixotropic, wash out resistant, technology • high early and ultimate strength for fast repairs and turn around without chlorides • non shrink for maximum durability and adhesion • seawater resistant • complies with US Corps of Engineers CRD C-621 (plastic and flowable conditions) • 100% solids, VOC free • designed for underwater and other wet applications
Uses:	Denso Seashield Underwater Grout is designed for underwater use in tidal zones in applications requiring a non shrink, non metallic, washout resistant grout from 12mm up to about 75 mm coating thicknesses. Underwater grouting of bridge columns, concrete pilings, concrete tanks, dam repairs, seawalls, piers and other marine structures.
Surface Preparation & Application:	<p>The concrete must be clean and sound, free of all marine growth, foreign material, including, laitance or other surface contaminants. All loose material must be removed.</p> <p>Permanently immersed substrates should be sand blasted or cleaned with a high pressure water jet.</p> <p>Substrates in the splash zone or above can also be prepared by sand blasting or high pressure water jet. Scabblers or brush hammering may also be used.</p> <p>Mix 4.0 - 4.5 litres (depending on desired consistency) of fresh clean water per 22.6 kg (50 lb) bag of material. Water quantity is critical to obtaining uniform consistency. Mix with a heavy duty low speed drill. Add recommended amount of clean water into the container, followed by the Denso UW Grout. Mix 3 to 4 minutes to desired consistency. Mix only what can be applied within the pot life period of approximately 20 minutes. Pass the mixed grout through a #4 sieve to remove any lumps immediately prior to placement.</p> <p>Place the Denso 510 UW Grout into the prepared area, ensuring intimate contact with the bonding surface. Continuous grout flow is required. The UW Grout should be poured or pumped into place through a flexible tube, which is a minimum diameter of 12 mm, into the lowest point of the form work. When commencing restrict the flow to prevent any air entrapment. The tube should be maintained at a minimum of 150 mm below the surface level of the grout in the form work.</p> <p>The grout can be placed in thicknesses of up to 100 mm in one pour for above water applications. When under water up to 175 mm can be placed in one pour.</p>

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