

Under Sea Water, Rapid Setting Repair System on Reinforced Concrete Column, Beam, Slab at Jetty or Dam, High Performance, Chemical Resistance & Protection against Corrosion**Solvent-Free Epoxy Grout For New & Existing Repair Structures.****Thickness Applied:** From >5.00mm to 50.00mm thick**Product Application:** **Epo Cem UW**, is high-viscosity water based epoxy resin contains a 2-Propoxyethanol & Amine, the offers high performance aqueous system, hardness, chemical resistance and protection against corrosion. The Structural Repair Mortar Grout are highly recommended applied on under sea water or dams or jetties.**Advantage & Properties:** The specific advantage offered by solvent-free Epoxy Resin Mortar Grout. Better adhesion, even on damp or not fully cured concrete, the system recommended for concrete can also be applied on other mineral substrates, as stones, bricks wall & fibre-glass.**Ultraviolet Resistance:** **Not reflection to eye and no yellowing after 100 hours.**

- ❖ Adhesion is always good on mineral substrates surfacing.
- ❖ Very good flow mechanical properties following optimal cure.
- ❖ Good in no dust from substrate coatings easy to clean, improved visibility.
- ❖ Excellent of chemical resistance, Good on hygienic floor and wall surfacing.
- ❖ Adhesion promoting primers between old with new concrete.
- ❖ Non-toxic, the mortar grout has been cured applied on health floor.

The chemical composition of resin and hardener is such that it is approval for food contact applications in accordance with recommendations made by the Federal German Board of health (Bundesgesundheitsamt)**Mechanical Performance of Properties**

			Epo Cem UW 100C [Course Sand]	Epo Cem UW 80F [Fine Sand]
Compressive Strength	25°C	[N/mm ²]	100 (± 3)	80 (± 3)
Tensile Strength	25°C	[N/mm ²]	25 (± 3)	25 (± 3)
Elongation at Break	25°C	[%]	1.45	1.45
Bond Strength	25°C	[N/mm ²]	< 2.10	< 2.05
Flexural Strength	25°C	[N/mm ²]	45 (± 3)	45 (± 3)
Under Water Cured	25°C	[hour]	30	30
Bonding cured	25°C	[hour]	20	20
Viscosity	25°C	[mPas]	150000	150000
Abrasion Resistance		[mg]	80	80
Modulus of Elasticity		[N/mm ²]	5200	5200
Service Temperature		[°C]	- 05 °C until Max. 60 °C	- 05 °C until Max. 60 °C
Application Temperature		[°C]	>10 °C until Max. 38 °C	>10 °C until Max. 38 °C
Specific Gravity	25°C	[gm/cm ³]	> 1.85	> 1.85

Surfaces Preparation	Concrete must cured at least 28 days and has with minimum Compressive Strength of 5,000 psi. Those cement slurry, plaster droppings, etc. must be remove, the surface of concrete free of oil, grease, and other loose particles and contaminations.
Mixing:	Supplied as three-component system. Mix materials with low speed drill and paddle for approximately Four minutes. Insure a thorough mix. Never mix more material than can be used in two (02) minutes. Do not apply Epoxy when ambient or surface temperatures are below 50 °F
Method of Mixing	Part A # Epo Cem UW Resin pours into pail and mixing with cement/sand. Part C # Filler cement/sand with use the mixer. After mix for 1 – 2 minutes, add Part B # Epo Cem UW Hardener mixing for approx. 1 minutes.
Method of Application	Surface to be repaired or sealed must be clean and sound. Concrete must be free of dust, laitance, sealers, grease and other bond inhibiting contaminants. Surface shall be recommended for priming. New concrete shall be at least of aged 28 days before coating. Old concrete surface must be cleaned of dirt, dust or other contamination with a thorough floor scrubbing. Apply Epo Cem UW , by hand or steel trowel and screeds exhibit a semi-smooth finish, can be kept in spotless hygienic condition and are of attractive appearance. Screed thickness usually varies from >5 – 50 mm thick.
Thickness	From >3mm until 50mm thick, depending of base structure strength
Packing & Size:	30 kg per pack
Available of Color	Standard is Grey or Black Special Color also available
Storage	12 months from date of manufacture in original sealed container stored undercover 25 °C, at ambient temperature away from heat, and dry conditions. For clearing equipment, use special solvent liquid.
Handling Precautions	Mandatory and recommended industrial hygiene procedures should be followed whenever our products are being handled and processed. For additional information please consult the corresponding product safety data sheets and the brochure "Hygienic Precautions for Handling Plastic Products"



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