



EUCLID PCW GROUT

Epoxy Grout for Pile Cap Waterproofing

DESCRIPTION

EUCLID PCW GROUT is a three component, solvent free, free flowing epoxy resin grout specially developed for pile cap waterproofing application. It has excellent resistance to both chemical and physical attack. EUCLID PCW GROUT has very good adhesion to steel and concrete.

PRIMARY APPLICATIONS

- Re-profiling and waterproofing of pile heads
- Installation of Bridge Bearings Plates
- Machinery, equipment or structural elements needing maximum bearing support
- Re-instatement of damaged joints and but joints in industrial floors.
- Epoxy Patch Repairing Material

FEATURES/BENEFITS

- High early strengths, fast return to service
- Excellent fatigue resistance
- Excellent adhesion to steel and concrete
- Clean tools with soap and water
- High chemical resistance
- Can be applied on damp surfaces

TECHNICAL INFORMATION

Material properties tested under laboratory conditions @ 25°C,50% RH

Property	Test Method	Values at 25° C	
Components	-	Three (Base, Hardener & Filler)	
Appearance	-	Black	
Fresh Wet Density	BSEN 12350-6	2.15 ± 0.05 Kg/Ltr	
Consistency	-	Flowable	
Pot Life	-	60 ± 10 minutes	
Compressive Strength	ASTM C579 (Method B)	7 days	85.0 N/mm ²
Flexural Strength	ASTM C580	7 days	20.0 N/mm ²
Tensile Strength	ASTM C307	7 days	10.0 N/mm ²
Bond Strength	ASTM D4541	7 days	Concrete Failure
Water penetration	BSEN 12390-8	Nil	
Chemical Resistance	-	Excellent resistance to most industrial chemicals*	
Abrasion Resistance	-	Greater than concrete	

* Consult Euclid technical service team for specific chemical resistance.

Values presented are typical and not necessarily referenced to create specifications.

PACKAGING

EUCLID PCW GROUT is packaged in a 20 Ltr Kit.

SHELF LIFE

12 Months if stored between 15°C to 30°C

COVERAGE/YIELD

~2 m²/ 20 ltr kit for application thickness of 10 mm.

Application Thickness (Single layer)	Min.	Max.
	10 mm	80 mm

DIRECTIONS FOR USE

Surface Preparation: Concrete surfaces must be structurally sound, free of loose or deteriorated concrete and free of dust, dirt, paint, efflorescence, oil and all other contaminants. Mechanically abrade the surface to achieve a surface profile of at least CSP 5-7 in accordance with ICRI Guideline 310.2. Properly clean profiled area. Concrete surface should be repaired and made fair faced using **Euco Thixo RM** or **VersaSpeed LS100** before laying of **Euclid PCW Grout**. Steel substrates must be de-rusted to a standard equivalent to SA 2.5.

Forming: A watertight shutter shall be created all around the area where Euclid PCW Grout shall be poured. Any gaps or openings below the formwork or on joints shall be sealed with a suitable mastic sealant from Tremco Sealant Range.

Mixing: Mix Base and Hardener separately for a minute using a slow speed drill (300 - 450 rpm) fitted to a suitable paddle mixer. Empty the entire content of hardener into the base container and mix thoroughly. Slowly add filler part into the mixer and further mix for another 3 – 4 minutes till a uniform and homogeneous consistency is achieved. Leave Euclid PCW Grout for few minutes until the entrained air bubbles have dispersed.

Application: Pour the mixed Euclid PCW Grout onto the pile cap surface.

Placement: Pour into anchor bolt holes and blackouts through a funnel or directly if space permits. When grouting plates, pour grout into the headbox and allow to flow under the plate. Straps pre-placed under the plate will aid in working the grout across. Grout can be placed at a minimum of 10 mm thick to a maximum of 80 mm per lift when placed in a large mass. Note: Bring all Euclid PCW Grout materials as well as foundation and baseplate as close to 75 °F (23 °C) as possible. Cold temperatures will significantly reduce flow characteristics and will increase the difficulty of baseplate grouting. Higher temperatures will increase initial flow but reduce working time.

Finishing: If a smooth finish is desired, the surface of the grout may be brushed and trowelled with a light application of EUCO SOLVENT.

Curing and Sealing: Euclid PCW Grout requires no special curing procedures.

CLEAN-UP

Clean tools and equipment with solvent before the material hardens.

PRECAUTIONS / LIMITATIONS

- Wear proper PPE when handling epoxies.
- Store all materials at 75 °F (23 °C) for at least 24 hours before use.
- Grout should be placed at ambient temperatures of 50 to 90 °F (10 to 32 °C).
- Rate of strength gain is significantly affected at temperature extremes.
- Do not remove, or add more aggregate, than stated on this technical data sheet.
- In all cases, consult the Safety Data Sheet before use.

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StonCor Middle East

Tel: +971 (0) 4 2579033

E-mail: info@stoncor-me.com

www.stoncor-me.com