

# PWC<sup>™</sup>

## Two-Component Polymer Modified Waterproofing Coating



Building  
&  
Transportation



Oil, Gas  
&  
Industrial



Offshore  
&  
Onshore



Water  
&  
Wastewater



### PRODUCT DESCRIPTION

CTech-LLC<sup>®</sup> PWC<sup>™</sup> is a two part polymer modified cementitious waterproof mortar slurry comprising of a liquid polymer and a cement based mix incorporating special admixtures. It is applied to concrete and mortar to prevent water infiltration. CTech-LLC<sup>®</sup> PWC<sup>™</sup> is easy to apply on the surfaces by stiff brush, roller, trowel or with spray equipment for larger applications to form a flexible waterproof coating.

### TECHNICAL DATA

	Unit	PWC <sup>™</sup>
Appearance / Colors	-	Part A: white liquid Part B: white / gray powder
Basis	--	polymer modified cementitious
Density	kg/L	1.75
Mixing Ratio (Parts A:B) by Weight		1:5
Adhesion Strength	N/mm <sup>2</sup>	>5
Water resistance	--	Passed
Material consumption	kg/m <sup>2</sup> /mm	~1,2
Crack bridging ability (CBA)	mm	>0.75
Drying time before recoating or top coating	days	5 @ +25°C
Drying time until full cure	days	14 @ +25°C
Layer thickness	mm	Min: 1 mm Max: 10 mm

### ADVANTAGES

- Pre-batched components
- Polymer modified cementitious waterproof mortar slurry
- Excellent waterproofing characteristic.
- Bond strength ensures superior adhesion.
- Easy to apply on the surfaces BY stiff brush, roller or trowel
- Formulated for potable water applications. The product is used for waterproofing of potable water or wastewater treatment facilities in new construction or restoration projects.
- Can be used for both – Negative / Positive side waterproofing of concrete structures.

- Interior and exterior applications
- Compatible with EN 14891

### TYPICAL USES

The CWS<sup>™</sup> can be applied to all structurally sound concrete – new or old. Typical areas of application are:

- Tanks
- Water-retaining structures
- Sewage treatment plants
- Channels
- Bridges
- Concrete slabs (floor, roof, balcony etc...)
- Parking structures
- Foundations

### INSTALLATION PROCEDURE

#### PREPARATION OF SUBSTRATE

- All surfaces to be in contact with CTech-LLC<sup>®</sup> PWC<sup>™</sup> product shall be free of oil, grease, laitance and other contaminants.
- Remove any bony or defective concrete. Seal cracks and spalled areas with appropriate CTech-LLC<sup>®</sup> repair products.
- Surfaces must be saturated surface-dry (SSD), with no standing water at the time of application.

#### MIXING

- All mixing must be done mechanically using a low-speed drill (400–600 rpm) and paddle.
- Place Component 'A' into a clean mixing container.
- While mixing, slowly add all of Component 'B' and continue to mix until you achieve a uniform paste with no lumps.

#### APPLICATION

- CTech-LLC<sup>®</sup> PWC<sup>™</sup> can be applied by stiff brush, roller, trowel or spray equipment. Ensure that the material is thoroughly worked into the substrate to fill all pores and voids.
- Application of 2 to 3 coats will be required. Ensure that the previous coat is sufficiently dry before applying the next coat (typically after 4 hours, depending on the substrate temperature and absorbability). The second coat should be applied perpendicular to the first coat.
- Place AR-glass mesh over the CTech-LLC<sup>®</sup> PWC<sup>™</sup> while still wet and gently press it in with the trowel so that it is completely covered.

#### PACKAGING

- Hobbock: 5kg
- Bag: 25kg

#### STORAGE & SHELF LIFE

- 6 months from the date of manufacture in original unopened sealed bag when stored in dry conditions

#### CAUTION

This product may cause skin irritation. Do not inhale vapors. Provide adequate ventilation. Protect against contact with skin and eyes. Wear rubber gloves, long sleeve shirt, goggles with side shields. In case of contact with eyes, flush repeatedly with water and contact a physician. Areas of skin contact should be promptly washed with soap and water. Do not take internally.

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#### CTech-LLC<sup>®</sup>

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#### IMPORTANT NOTE:

Before using any CTech-LLC<sup>®</sup> product, the user must review the most recent version of the product's technical data sheet, material safety data sheet and other applicable documents, available at [www.ctech-llc.com](http://www.ctech-llc.com).

#### WARANTY:

CTech-LLC<sup>®</sup> warrants its products to be free from manufacturing defects. Buyer determines suitability of product for use and assumes all risks. Buyer's sole remedy shall be limited to replacement of product. Any claim for breach of this warranty must be brought within one month of the date of purchase. CTech-LLC<sup>®</sup> shall not be liable for any consequential or special damages of any kind, resulting from any claim or breach of warranty, breach of contract, negligence or any legal theory. The Buyer, by accepting the products described herein, agrees to be responsible for thoroughly testing any application to determine its suitability before utilizing.