

## Product Description

TCC Materials® Underground Utility Mortar is a dry, preblended, air-entrained mortar mix containing Portland cement, hydrated lime, and dried masonry sand formulated for superior bond and outstanding freeze-thaw resistance in all underground precast concrete structure applications.

## When/Where to Use

TCC Materials® Underground Utility Mortar is designed to be compatible with the characteristics of the specified pre-cast concrete structure or brick used in manhole and catch-basin construction. Underground Utility Mortar is acceptable for the jointing of all types of underground precast concrete utility construction and laying concrete brick in manholes and catch basins. It may be used above or below grade when manufactured to the appropriate specification.

## Applicable Standards

Underground Utility Mortar meets ASTM C270-Property Specification and ASTM C387. In addition, Underground Utility Mortar meets the Minnesota Department of Transportation Specification 2506.2B, *Manhole and Catch Basins*.

## Advantages

- Optimal Bond with Pre-Cast Concrete
- Excellent Freeze-Thaw Resistance
- Air-Entrained, Preblended Mixture
- Below or Above Grade

## Typical Yield

One 80 lb. (36.3 kg) bag will yield approximately .7 cubic feet of wet Underground Utility Mortar.

### Helpful Items:



Gloves



Pail



Water



Mixer



Trowel

## Packaging

80lb. (36 kg) or 3000lb. (1361 kg) bags

## Surface Preparation

Concrete surfaces should be clean, sound, and free from any materials that may inhibit bond such as oil, asphalt, curing compounds, acids, dirt and loose debris.

## Mixing and Application

When mixing, a mechanical batch mixer best ensures homogeneity, workability and good board life. Place the desired number of bags of Underground Utility Mortar into the mixer. Use full bags only. Do not exceed mixer capacity. Use clean, potable water and add approximately 1-1¼ gallons per bag for optimal workability. Mix batch for approximately 5 minutes. For concrete pipe connection, ensure that concrete pipe joints are thoroughly cleaned and dry prior to application of Underground Utility Mortar. Pack the mortar into the annular space on the concrete pipe and finish smooth and flush inside while leaving a smooth mortar layer over the exterior connection. Lay concrete brick in manholes or catch basins following standard masonry practices. Underground Utility Mortar can be used as a parge coat over the brick in the manhole or catch basin. Mortar shall be used and placed in final position within 1½ hours after initial mixing or discarded at that time. Do not retemper Underground Utility Mortar.



**WARNING: INJURIOUS TO EYES!**

**KEEP OUT OF REACH OF CHILDREN!**

## Warning

This product contains Portland cement. Contact with cement, freshly mixed concrete, or mortar can cause severe burns. The cementitious materials mixed onsite are alkaline in nature and on contact with water may irritate the eyes and skin. If contact with eyes occurs, flood eyes repeatedly with clean water and see a physician immediately. Do not rub eyes. Wash hands thoroughly after handling or before eating. Do not take internally. This product may contain silica. Inhaled silica dust may cause respiratory or other health problems.

## Warranty

Seller warrants that its product will conform to and perform in accordance with the product specifications. The foregoing warranty is in lieu of all other warranties, express or implied, including, but not limited to, those including merchantability and fitness for a particular purpose. Because of the difficulty in ascertaining and measuring damages hereunder, it is agreed that, the seller's liability to the buyer at no point for any particular project shall exceed the total purchase price of said product.



MORTAR PROPERTIES	ASTM C387	ASTM C270
Compressive Strength-28 Days	3780 psi	5050 psi
Water Demand, lb/ 80 lb. bag	10.7 lbs	10.8 lbs
Water Demand, gal/ 80 lb. bag	1.3 gal	1.3 gal
Flow, %	113	109
Air Content, %	9.0%	8.0%
Yield, ft³ / 80 lb bag	.76	.70