

Product Description:

Barrier One Tilt-Up & Precast ("TPX") is a ready to use liquid concrete admixture that reduces cracking, water leakage, spalling, efflorescence, & surface imperfections. TPX eliminates the need for topical moisture sealers and/or waterproofing products.

TPX's USA manufactured ingredients are integrally combined with existing elements of your mix design initiating capillary breaks within the concrete. These chemical reactions create abundant insoluble hydration products; permanently disrupting your concrete's natural capillary / pore structures. These reactions eliminate the movement of critical level moisture vapor emissions into & out of the concrete.

TPX has been extensively tested in both laboratory and field conditions. This admix has demonstrated increased early strength gains creating a denser concrete resulting in reduced cracking, water leakage, spalling, efflorescence, & surface imperfections.

TPX utilization allows for the direct application of primers, cementitious coatings, and sealers to be installed in as little as 7 days.

Technical Data:

- Appearance: Translucent Green
- Toxicity/ Vapors / Odors: None
- VOCs: 0 g/l
- Specific gravity: 1.26
- Weight: 10.1 lbs./gal (net)
- Freeze Temp: 32°F
- Shelf Life: One Year from delivery
- Flammability: None
- Chlorine Content Added: None
- Capillary Break: Yes
- Ph: 11-12

Dispensing:

- Compatible with normal & light weight mix designs.
- Compatible with well consolidated steel & composite fibers.
- Dosage: 14oz volume / 100 lb. total cementitious with 1:1 mix water replacement.
- Water to Cementitious ratio design ranges of 0.38 to 0.52
- TPX should be dosed separately from other admixes & at the tail- end of the load. Adding TPX with withheld tail water is recommended. **Do not allow TPX to come in contact with dry cementitious materials.**
- Allow a minimum of 7 minutes of rapid drum rotation before discharge.
- Do not let the TPX material freeze at any point prior to application.

Concrete Performance:

- TPX has no deleterious concrete effect & does not accelerate or retard mix set times per ASTM C494 testing. It facilitates finishing by reducing bleed-water; creating a creamier / richer undiluted paste.
- Water reducing admixes are acceptable to achieve slumps > +4".
- TPX has minimal impact on slump. ($\leq 0.5"$ slump loss)
- Added shrinkage reduction admixtures (SRA) or crystalline product utilization are not recommended.

Curing:

Water Curing, Fogging, Spraying, Plastic Sheeting, Curing Compounds, and Insulating Blankets are all acceptable curing methods.