CONCRETE COATING

DESCRIPTION

ThinTech Concrete Coating is none permeable and protects concrete & masonry surfaces from water, chloride ion penetration, food & beverage acids, bird & animal waste, salt spray, chemicals. It is peel and flake resistant, available in gloss or satin finish, can be applied as a top coat. Perfect solution for corrosion, prevention, moisture intrusion, efflorescence, mild acids, bird & animal waste, and hydrocarbon protection.

Applications / Surfaces:

ThinTech Concrete Coating is used for exterior concrete walls & structures, floors, masonry pavers, bricks, and cement blocks.

CHARACTERISTICS

Appearance: Light Yellow
Finish: Clear
Odor: Mild Fruity
Base Type: Solvent

Flash Point: 16.7ºC (62.1º F)
VOC: >100g/liter
Weight per Gallon: 1kg/liter, 8.34 lbs/g

Coverage: 200–600 sq ft./gal (approximate). Coverage will vary depending on the porosity and texture of the substrate as well as the applicator's method of application.

Expected Wear: 5+ years under normal conditions. Reapply as needed.

Surface Preparation: Ensure the surface is clean, dry, free of oil and grease

APPLICATION INSTRUCTIONS

Test Area: To ensure proper adhesion and the desired appearance, it is recommended to test ThinTech Concrete Coating in a discreet location due to the diverse nature of concrete and masonry surfaces, as well as various application techniques and environments. The application of this technology may result in a slight improvement or alteration of the natural surface, and a shine in either a gloss or satin finish, depending on your preferred option. The variety of textures and porosities of concrete and masonry surfaces can greatly impact the final result, making it important to test before full-scale application.

Surface Preparation

To ensure a successful ThinTech application, the surface must be clean, dry, and structurally sound. Remove all traces of oil, grease, dust, dirt, and foreign materials that could hinder bonding. If the surface has been exposed to oil, confirm that residues are fully removed to prevent wicking, delamination, or peeling. Repair any cracks, crumbling, or defects before coating.



If you're a property owner seeking to safeguard your investment and extend the life of your outdoor spaces, look no further than our advanced formulations and unparalleled performance.

For more Information:
info@thintechcoatings.com

New Concrete or Masonry

- Remove contaminants, laitance, existing coatings, and curing agents.
- Create a uniform profile equivalent to 600-grit via sandblasting or floor grinding.
- Verify surface pH is 7–9; clean thoroughly and allow to dry completely.
- Confirm surface moisture is ≤ 13% prior to application.

Previously Painted Surfaces

- Eliminate foreign material and sand to a 600-grit profile. .
- If the existing paint is chipped or weather-damaged, repaint as required and follow the paint manufacturer's cure time before applying ThinTech.

APPLICATION

- **Application:** ThinTech Concrete Coating can be applied using a pump sprayer with a grey or red fan tip or through rolling with a high-density, ultra-smooth roller; an airless sprayer may use for larger projects. To avoid any drips or accidental coating on surrounding surfaces, it's important to cover them before starting the application process. Adequate ventilation should be maintained, and all possible ignition sources should be removed from the area. It's also crucial to ensure that the temperature during outdoor application is within the range of 45°F and 105°F, and that there's no chance of rain for at 48 hours after completing the coating process. Proper precautions should be taken for natural elements.

- **Pump Sprayer:** Begin by thoroughly shaking the contents of the container to re-suspend any ThinTech particles that may have settled to the bottom. This is typically about ¼ of buildup. Re-shaking every 15–20 minutes is necessary to maintain re-suspension of the particles. It is recommended to use a high-quality acetone/alcohol proof pump sprayer with a grey or red fan tip, as opposed to a standard tip, to achieve the best results. Hold the tip at a distance of 8" to 10" from the surface being coated and apply the product in a cross pattern, either left to right, up and down, or in a circular motion. Avoid applying the coating too thick and ensure it does not puddle, as this can lead to surface tension and potential bubbles or delamination. If a second coat is necessary, wait 10–20 minutes before reapplying.

- **Roller:** Shake the contents of the container thoroughly to re-suspend the ThinTech particles that have settled at the bottom. There will typically be around 1/4" of buildup in the bottom, which needs to be re-suspended every 15–20 minutes to ensure proper performance. Roll the ThinTech onto the surface using a high-density ultra smooth roller in a cross-pattern, moving from left to right and then up and down, making sure that the roller is always completely saturated. Avoid applying a second coat unless there is a flaw in the first application. If a second coat is required, wait for the surface to dry for 24 hours, then abrade it with 220 grit sandpaper using a buffing floor machine to allow for proper bonding. Sanding is necessary for the second coat to adhere to the first one. After sanding, clean the floor of dust and reapply.

TECHNICAL DATA

PROCESSING PROPERTIES (Under standard lab conditions)	
Touch Dry	2-3 hours
Dry Through	3-5 hours
Recoat interval	10-20 minutes
To be walked on	Min 8-12 hours
To be exposed to moisture	48 hours
Full Cure	7 Days
Properties and values are highly dependent on equipment, spray gun, mix chamber temperature, pressure and related parameters. Values are slightly different for clear. Variations are possible and expected.	

TECHNICAL DATA SHEET

ThinTech Coatings
ADVANCED COATING TECHNOLOGY

TECHNICAL DATA (All values @ 77 oF / 25 oC)	US	Metric
Volatile organic compounds (ASTM D2369)	< 0.83 lb./gal	> 100 gm/ liter
Theoretical coverage	600 – 800 Ft2 / gal @ 0.7–0.75 mils DFT	16-20 m2/liter @ 18-44 microns
Specific Gravity of materials (ASTM D792)	7.36 lbs./gal	0.88 kg/ liter
Shelf life @ 77 oF /25 oC	12-24 Months	12-24 Months
Flash point - pensky martin closed cup	15 oF	-9 oC
Application Temperature	45 – 105 oF	7 – 77 oC
Abrasion Resistance CS-17 1000 Cycles (ASTM 4060)	23 mg Loss	
Surface Flammability (ASTM E162)	Heat Index 0 (Best Result)	
Adhesion to 800 Grit Polished Concrete (ASTM 4541)	1200+ PSI Cohesive Concrete Failure	
Accelerated UV Exposure 1000 hrs. (ASTM G154)	dE: <0.5	
Thermal Cycling (ASTM 6944) 50C - 4 Hours Immersion @ 25C - 4 Hours -29C - 16 Hours	No Effect	
Solvent Resistance - MEK (ASTM 4752	1000 Rubs - No Effect	
Shore D Hardness (ASTM D2240)	72 +/- 3	
Operating Temperature	-200 - 350F	

STORAGE

Storage and shelf life should be unopened two year. Store in cool dry environment.

CLEAN UP

Clean tools and equipment with acetone and flush thoroughly immediately after application is completed and before the product dries. Remember, if the coating dries on the tools, they will not come clean with acetone or any other solvent.

CARE & MAINTENANCE

For routine cleaning, a damp rag or can be used to remove most dirt and spills from the surface. While ThinTech's Concrete Coating is resistant to scratches, it is not completely scratch-proof, so it's important to avoid using abrasive cleansers or scouring pads. If an area is damaged or abraded, simply sand the affected area lightly with 600 grit sandpaper and reapply the Concrete Coating. If the substrate is also damaged, make necessary repairs first before reapplying the coating.

CAUTION

For safe handling, use OSHA approved 1910.134 and ANSI Z88.2 Respiratory protection. Fresh air and exhaust are required in the work area to prevent inhaling. If inhaled, move to fresh air immediately and call a physician if any physical difficulties occur. Wear butyl-rubber gloves and other skin protection to avoid contact with the skin. If the coating comes in contact with the skin, wash it thoroughly with soap and water. To avoid splashes, use chemical safety goggles or splash shields. Never wear contact lenses without eye protection. In case of contact with the eyes, immediately flush them with water for 15 minutes and seek medical attention. If accidentally swallowed, rinse mouth thoroughly and obtain immediate medical attention. Always make sure to have excessive ventilation when working in an enclosed area.

CERTIFIED PERFORMANCE

Independent chemical-resistance testing by Quatest 3 (Vietnam), report KT3-00467BHD3/2, using ASTM D1308-02(2013) spot testing and ISO 105-A02:1993 grey-scale colour-change evaluation.

Samples on both concrete and metal substrates were exposed for 72 hours to 40wt motor oil, diesel fuel and hydraulic fluid. All six exposure/substrate combinations showed no blistering and Grade 5 colour change (negligible or no change/staining).