



SUPERFLAT®

CONCRETE ENHANCEMENT™

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ASSIST™

Superior **finishing aid** and **evaporation reducer** for significantly extending the **workability time** on newly placed concrete projects. Designed to meet floor flatness specifications. Compatible with all design mixes.

CONCRETE FINISHER / MOISTURE RETARDANT

Nanotechnology. Non-corrosive. Non-hazardous.

DESCRIPTION

Superflat® Assist™ is a topically applied evaporation reducer that is applied on the surface of newly placed concrete during the machine finishing process. Superflat® Assist™ significantly extends the workability time on newly placed concrete and produces tighter finishes without the need to add water or wetting agents to the surface during the finishing process. Superflat® Assist™ keeps heavy finishers / power trowels above plane during the finishing operation and prevents newly placed concrete from being displaced during finishing. Floors tested using Superflat® Assist™ will produce a 40% increase in Ff/FI (floor flatness/floor levelness).

Superflat® Assist™ is a clear, odorless liquid that is packaged in convenient, ready-to-use, 5 gallon pails, 55 gallon drums, and 265 gallon tote containers. The resulting finished surface creates an environment that has cured naturally without the introduction of wetting agents or accelerated chemicals that cause surface weakness and irregularities in the finish. Treated floor slabs using Superflat® Assist™ do not allow excessive moisture to escape from the surface which eliminates conditions that cause craze cracking. Treated surfaces will keep common spills and other moisture suspended on the surface of the concrete substantially longer than untreated surfaces.

Once properly applied, the finished surface provides substantial improvement in abrasion resistance and will significantly improve the durability of the surface when compared to untreated concrete. Superflat® Assist™ solidifies the concrete, eliminating dusting, pitting and excessive wear. Superflat® Assist™ is chemically engineered to provide simple, quick, sustainable solutions.

Superflat® Assist™ is to be applied through the sprayer on the power trowel during the finishing process with newly placed concrete. The use of this product significantly reduces drag and friction with the blades and produces much stronger and tighter finishes.

Superflat® Assist™ does not require brushing into the surface, rinsing, or removal of excessively applied material. Simply continue operating power trowels until the applied material becomes dry to the touch. After application, the resulting surface features enhanced protection and sheen, coupled with superior abrasion resistance.

This environmentally safe, water-based product features a zero VOC content and provides an attractive option in green building applications.

USES

Superflat® Assist™ is recommended for use whenever extremely tight / reflective superflat work is required. Other benefits include, but are not limited to, an increase in performance in: chemically treated surfaces, densification, increased hardness, dustproofing, and overall improvement of abrasion resistance on surfaces in wet environments. Ideal applications include floors in industrial plants and warehouses when impervious floor systems need to be installed over finished concrete.

ASTM testing has been conducted on this product and test results provide the data that concrete floors treated with Superflat® Assist™ will produce abrasion resistant finishes comparable to quartz shake hardeners.



SPECIFICATIONS

- Complies with all State and Federal allowable VOC requirements.
- Treated surface passes the minimal (OSHA) Static Coefficient of Friction (SCOF) standards
- Increased abrasion resistance
- Tighter produced finish with minimal risk of crazing

COVERAGE / APPLICATION RATE

Types of Surface	ft ² /Gal	M ² /Gal
Time of Placement	500-600	46.45-55.74

Note: Coverage rates may vary slightly depending on the spray delivery system and/or operator and/or both.

FEATURES / BENEFITS

- Nano sized molecular reaction penetrates deeply into concrete and significantly reduces the amount of moisture loss at time of placement to drastically increase workability times
- Quick and easy, hassle-free application procedure (no flushing or rinsing required) / Delivery method by way of ride-on finish machines equipped with sprayers
- Does not require lengthy dwell times on the surface or rinsing after application
- Increases PSI by 40% on average

- Provides a permanent, smooth, attractive finish that is easy to maintain
- Protects against scratching, peeling and crazing
- Acts as a bonding agent that consolidates shake hardeners with specialty design mixes
- Drastically Improves light reflectivity with single application
- Compatible with solvent based topical sealers
- Ready to use formulation / no mixing required
- Convenient for indoor and exterior use
- Environmentally safe and non-hazardous
- No VOC'S

APPLICATION

Application Method (Ride-on Power Trowels)-Fresh Concrete:

On newly placed concrete, Superflat® Assist™ can be applied during all passes with the pans and the finishing trowels. Optimally, Superflat® Assist™ is applied in three separate applications, on average, during the finishing process. If extended finishing times are desired, begin applying Superflat® Assist™ during initial pass with the pans. If longer finishing times are not desired, begin applying Superflat® Assist™ during the last pass with the pans. Total application rate is minimum 2,500 sq. ft. per 5 gallon pail. Typical procedures with standard chemical misting systems on power trowel machines will yield these required application rates. It is always good practice to measure off an area of placed concrete and confirm that the application rates are correct.

For a curing and hardening system, use coordinating products from the Superflat® Concrete Enhancement™ family of products.

Application Method (Walk-Behind Trowels)-Fresh Concrete:

Apply undiluted Superflat® Assist™ as described above per proper application rates via delivery system of a HVLP pump sprayer. Work freshly applied material into the surface of the concrete during normal finishing procedures. No need to over-work material into the surface unless a burnt finish is desired or specified.

Burnishing / Sealing:

Floors treated with Superflat® Assist™ can be sealed with Superflat® Assist™ and burnished to a high sheen. A high-speed burnisher (2000-2200 rpm) with medium to coarse maintenance pad can be used for optimum results. Diamond impregnated pads are acceptable as well.

No mixing is required.

ADDITIONAL INFORMATION

PACKAGING

5 Gallon Pails | 55 Gallon Drum | 265 Gallon Totes
Typical shelf life is 1 year in original, unopened container.

PRECAUTIONS: DO NOT DILUTE. Do not apply if the temperature of the concrete is less than 38° F (3° C) or above 165° F (74° C). KEEP FROM FREEZING. If frozen, product should be discarded.

DRYING TIME: Not applicable. Superflat® Assist™ penetrates into the surface very quickly on newly placed concrete. Applied material is not film forming and will not create additional clean-up steps.

CLEANUP: While still wet, equipment may be cleaned quickly and easily with soap and water. Immediately wash off over-spray from glass, aluminum, or highly polished surfaces with water to avoid etching of surfaces.

May contribute to LEED credits:

- EQ Credit 4.2: Low-Emitting Materials: Paints & Coatings
- MR Credit 5.1: Regional Materials: 10% Extracted, Processed & Manufactured Regionally
- MR Credit 5.2: Regional Materials: 20% Extracted, Processed & Manufactured Regionally

HEALTH HAZARDS: Superflat® Assist™ is non-combustible. (Flash point is >210° F.) Direct contact will result in irritation of the skin and eyes. Inhalation of product mist may result in respiratory irritation. Refer to Material Safety Data Sheet for complete health and safety information.

LIMITED WARRANTY: Superflat® warrants at the time and place we make shipment, our material will be of good quality and will conform with our published specifications in force on the date of acceptance of the order. Read complete warranty. Copy furnished upon request along with disclaimer.

For our most current data sheets, please visit www.getsuperflat.com.