



PRODUCT INFORMATION SHEET
4420 FS MORTAR
1/4" AGGRESSIVE SLIP RESISTANT SLURRY TYPE
SCREED RAKE APPLIED FLOORING SYSTEM

DESCRIPTION:

4420 FS is a four-component, urethane flooring system. 4420 FS is a screed rake applied slurry system, with broadcast aggregate, installed at 1/4 inch (250 mils). 4420 FS is U.S.D.A. acceptable for food processing plants, and has excellent resistance to thermal shock, many acids, caustics, detergents, and other corrosive materials.

ADVANTAGES:

- Thermal Shock Resistant
- Prepackaged, Applicator Friendly
- Excellent Adhesion
- Short Down Time – Quick Cure
- Easy to clean, U.S.D.A. acceptable.
- Chemical Resistant
- Environmentally safe.
- 16 Mesh Aggregate For Aggressive Slip Resistance

USES:

- Food Production Plants
- Oven And Fryer Lines
- Coolers and Freezers
- Forklift Aisle-ways
- Chemical Spill Containment Areas
- Industrial Production Facilities

SUPPLEMENTAL PRODUCTS:

- 3000 VS Vertical Surfaces and Covs
- 3300 CR Veil Coat Chemical Resistant Sealer
- 1000 CS Pigmented Topcoats
- 3000 FLEX
- Fibercoat - Reinforced Wall Coating

PROPERTIES:

Compressive Strength	8,100 psi ASTM C-579 (resin)
Tensile Strength	950 psi ASTM D-638 (resin)
Flexural Strength	1,900 psi ASTM C-580 (resin)
Bond Strength	Greater than 350 psi ASTM C-321 100% concrete failure
Coefficient of Thermal Expansion	1.1 x 10 ⁻⁵ in./in./°F
Modulus of Elasticity	1.7 x 10 ⁵ psi ASTM C-580
Impact Strength	120 in./lbs.
Indentation	No indentation MIL-D-3134F
Flammability	Does not Support combustion
Working Time at	20-30 minutes 75°F (24°C) ASTM C-308
Shelf Life	6 months <i>Store at a minimum temperature of 50°F (4420 FS Pt A and B may crystallize below 50°F.)</i>
Colors	Gray, Red, Black
Solids by Content	By Weight 100% By Volume 100%

PACKAGING AND COVERAGE:

4420 FS Mortar – packaged in batches, - supplied by the UNIT - consisting of the following -
10 batch unit – covers approximately 250 square feet at ¼ inch (250 mils).
10 containers - Part A (resin)
10 containers - Part B (hardener)
100 bags - Part C (chemical resistant aggregate)
200# - Part D (broadcast aggregate)
20 batch unit – covers approximately 500 square feet at ¼ inch (250 mils).
20 containers - Part A (resin)
20 containers - Part B (hardener)
20 bags - Part C (chemical resistant aggregate)
400# - Part D (broadcast aggregate)

SURFACE PREPARATION:

4420 FS may be installed only on clean, sound substrates

Concrete:

New concrete must be cured a minimum of 28 days. All coatings, oils, grease and unsound concrete must be removed. Concrete surfaces must then be acid etched, scarified or shot blasted to remove surface laitance. A good bonding tooth, the texture of 60 grit sandpaper, is desired for maximum adhesion, with removal of all surface glaze.

MIXING:

Prior to mixing, materials should be stored at 70°F (21°C) at least 48 hours.

Mortar: Empty the entire contents of Part B and Part A into a pail and mix thoroughly for two minutes. Slowly add the entire contents of Part C (aggregate) and the three components, (Part A, B, and C) for an additional two minutes. Pour the entire batch onto the floor immediately after mixing spread appropriately. If mortar is allowed to sit in the mixer the working time of the system

APPLICATION:

Substrate temperature should be 65°-85°F (18°-29°C) during installation, and for 28 days thereafter for complete cure. Do not apply 4420 FS when substrate temperature is below 60°F (16°C). Pour mortar mixture in a ribbon on the floor, spread evenly with a screed rake, and back-roll with a looped roller to smooth any irregularities in the film. Leaving a wet edge for the next batch, broadcast the Part D aggregate into the freshly troweled surface. Repeat process until entire floor is covered. After 4420 has hardened overnight (approximately 12-18 hours), sweep off excess Part D from broadcast coat. Unless otherwise specified, the 4420 flooring system is designed to follow the existing contour of the floor.

CURE TIME:

4420 FS will harden to foot traffic in 8-12 hours at 75°F (24°C). Maximum chemical resistance and physical properties will be attained after 28 days at 75°F (24°C).

CLEANUP:

Cured or hardened 4420 FS will bond to practically all surfaces and is extremely difficult to remove. Clean all tools and mixer immediately after use with acetone or other solvent based cleaners.

SAFETY:

Avoid skin contact. If eye contact occurs, flush with water and consult a physician immediately. Keep work areas well ventilated. Never seal a container of mixed Part A and B, as the continuing exothermic reaction may cause container to explode. 4420 FS Material Safety Data Sheets are available upon request.

Warning:

4420 FS may crystallize when exposed to temperatures below 50° Fahrenheit for extended periods of time. 4420 FS should not be exposed to freezing temperatures. The prepackaged mortar is NOT freeze / thaw stable.

IMPORTANT NOTICE TO PURCHASER:

The following is made in lieu of all warranties, expressed or implied. Seller and manufacturer's only obligation shall be to replace such quantities of the product proved to be defective. Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequential arising out of the use of or inability to use the product. Before using, user shall determine the suitability of the product for his intended use, and user assumes all risks and liability whatsoever in connection therewith. The foregoing may not be altered unless written authorization is received from PROTECTIVE FLOORINGS AND LININGS, A DIVISION OF A. W. CHESTERTON.

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