

PRODUCT INFORMATION SHEET
4410 FS MORTAR
¼" MODERATE SLIP RESISTANT SLURRY TYPE
SCREED RAKE APPLIED FLOORING SYSTEM

DESCRIPTION:

4410 FS is a four-component, urethane flooring system. 4410 FS is a screed rake applied slurry system, with broadcast aggregate, installed at ¼ inch (250 mils). 4410 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.
- Moderate Slip Resistance – 30 mesh aggregate

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 Covos
- 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 (4410 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:

4410 FS Mortar – packaged in batches,
- supplied by the UNIT - consisting of the following -
2 batch unit – covers approximately 57 square feet at
¼ inch (250 mils), consisting of the following -
2 containers - Part A (resin)
2 containers - Part B (hardener)
2 bags - Part C (chemical resistant aggregate)
50# - Part D (broadcast aggregate)

20 batch unit – covers approximately 575 square feet at
¼ inch (250 mils), consisting of the following -
20 containers - Part A (resin)
20 containers - Part B (hardener)
20 bags - Part C (chemical resistant aggregate)
500# - Part D (broadcast aggregate)

SURFACE PREPARATION:

4410 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 A and Part B
into a pail and mix thoroughly for two minutes. Slowly
add the entire contents of Part C (aggregate) and
continue mixing 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 will be reduced.

APPLICATION:

DO NOT APPLY IF RELATIVE HUMIDITY IS ABOVE
85%. Substrate temperature should be 65°-80°F (18°-
26°C) during installation, and for 28 days thereafter for
complete cure. Do not apply 4410 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
leveled surface. Repeat process until entire floor is
covered. After 4410 has hardened overnight
(approximately 12-18 hours), sweep off excess Part D
from the broadcast coat. Unless otherwise specified, the
4410 flooring system is designed to follow the existing
contour of the floor.

CURE TIME:

4410 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 4410 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. 4410 FS Material Safety
Data Sheets are available upon request.

Warning:

***4410 FS may crystallize when exposed to
temperatures below 50° Fahrenheit for extended
periods of time. 4410 FS should not be exposed to
freezing temperatures. The prepackaged
components are 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.**

Revised 6/09

