



The Chemical Company

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PRODUCT DATA

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Cementitious
Waterproofing

FLEXTIGHT™

Flexible, cementitious
waterproofing membrane

Description

Flextight™ is an acrylic-modified, Portland cement-based flexible waterproofing membrane for concrete and masonry. Use it above or below grade on interior or exterior surfaces.

Yield

80 ft² (7.4 m²) per Flextight™ kit

Coverage may vary due to substrate condition and application procedure.

Packaging

5 gallon (18.93 L) pails, containing: 1.75 gallons (6.6 L) of Part A liquid 32 lbs (14.5 kg) Part B powder

Color

Gray

Shelf Life

9 months when properly stored

Storage

Store in unopened containers in a cool, clean, dry area. Keep Flextight™ Part A from freezing in the container; do not store below 35° F (2° C).

Features

- Waterproof membrane
- Creates a flexible membrane
- Breathable
- Ready-to-use kit
- Low VOCs

Benefits

- Protects against soil moisture and water seepage; extends life of structural slabs and underlayments
- Accommodates substrate movement; prevents cracks from telegraphing; provides excellent underlayment for thin-set tile applications
- Allows interior moisture vapor to escape
- Easy to mix and place
- Environmentally friendly; low odor

Where to Use

APPLICATION

- Walls and floors
- Tiled pools and fountains
- Plaza decks
- Balconies
- Mechanical rooms

LOCATION

- Interior or exterior
- Above or below grade

SUBSTRATE

- Concrete
- Masonry

How to Apply

Surface Preparation

1. Substrates must be sound and level and the surface free from protrusions, large pores, honeycombs, gaping cracks, and ridges. Concrete substrates should be cured 28 days before Flextight™ application.
2. Sandblast or waterblast substrates to remove all traces of water repellents, bitumen, form oils, grease, paint, and other foreign matter from substrate that could act as a bondbreaker.

3. Any edges must be rounded. Form covers with regular site-mixed mortar and round to a minimum radius of 1-1/2" (38 mm).

Mixing

1. Flextight™ is supplied in precisely proportioned units ready for mixing. When using Flextight™ in cooler climates or if a thicker consistency is desired, reduce the amount of Part A (liquid) in the mixture by approximately 1 quart (0.9 L).
2. Precondition material to 70° F ±5° (21° C ±2°) for easier mixing and application.
3. Slowly add Part B (powder) to Part A while mixing with a 3/4 inch drill and mixing paddle.
4. Mix to a uniform, smooth, lump-free consistency. If a looser consistency is desired, add the remaining portion of Part A liquid. Overmixing may entrap air.
5. Mix for 3 – 5 minutes while blending components and 1 – 2 minutes after all components have been blended.
6. The pot life of Flextight™ is approximately 30 – 90 minutes depending on ambient conditions.



Technical Data

Composition

Flextight™ features acrylic-modified Portland cement technology.

Typical Properties

PROPERTY	VALUE
Powder	Fine aggregate and hydraulic cement and other proprietary additives; asbestos free
Liquid	Modified acrylic dispersion
Mixing ratio liquid	1.75 gallons (6.6 L) Flextight™ liquid (Part A) to 32 lbs (14.5 kg) Flextight™ powder (Part B) (3.2 gallons [12.1 L] total unit)
Working time	Approximately 30 minutes
Time before tiling or overcoating	Minimum 72 hours

Test Data

PROPERTY	RESULTS	TEST METHODS (CRITERIA)
Adhesive pull-off strength , psi (MPa)	350 (2.4)	ASTM D 4541-A2
Adhesion to concrete , psi (MPa)	85 (0.6)	ASTM C 297
Tensile strength , psi (MPa)	200 (1.4)	ASTM D 412 (without mesh)
Elongation , %	50	ASTM D 412 (without mesh)
Water absorption , %	10	ASTM D 570
Waterproofing	Pass: resisted 100 ft positive hydrostatic head	28 days (untreated substrate) at 50 psi (0.3 MPa)
Vapor permeability , dry perms	0.93	ASTM E 96
Crack bridging , mm	2	CR-TM 41.1

Test results are averages obtained under laboratory conditions. Reasonable variations can be expected.

Application

1. The substrate must be saturated surface-dry (SSD) with no standing water.
2. Flextight™ is applied only to the positive side (source of moisture) of the substrate in 1 or 2 void-free coats. Allow 24 hours before second coat. Thoroughly work the material into the substrate. Make sure the rounded edges are fully coated. Apply at 80 wet mils, using a 1/8" (3 mm) square-notched trowel, yielding 60 dry mils (1/16" or 1.6 mm).
3. Embed fiberglass tape wherever dissimilar materials join. Also treat surface cracks less than 1/8" (3 mm) wide and areas where underlayment panels meet.
4. In most cases, 1 coat is sufficient without reinforcing mesh. If reinforcement is necessary, embed an appropriate mesh into the still-wet first coat and use a trowel to work the material up and through the mesh until it is completely embedded. Material that is too thick is subject to drying or shrinkage cracking. Be certain to cover all reinforcement material.
5. Smooth over with the flat trowel edge, creating a smooth, void-free membrane.

Curing Time

1. Prevent premature drying of the green application and protect it from extreme heat, direct sunlight, wind, rain, and frost for at least 3 days. (Curing time varies with humidity, temperature, and substrate porosity.)
2. Tile can be applied after 3 days.
3. Do not allow surface to become wet before curing is complete. Protection boards may be needed to avoid puncturing membrane while installing tile.

Clean Up

Wash tools with water immediately after use. Cured material may only be removed mechanically.

For Best Performance

- Do not apply at temperatures below 40° F (4° C) or above 90° F (32° C).
- Do not dilute with water.
- Do not use additives of any kind.
- Do not apply thicker than 1/16" (1.6 mm).
- Do not over trowel.
- Use caution under extremely hot or windy conditions; they will shorten the pot life and reduce trowelability. Call Technical Service for recommendations.
- Flextight™ is not a vapor barrier.
- This product is not recommended for application over lauan, presswoods, particle board, masonite, chipboard, plywood, asbestos board, or any other unstable materials.
- Do not use as an adhesive to install ceramic tile or natural stone.
- Allow coating to harden sufficiently (not less than 3 days) before tiling over it.
- Do not puncture membrane while setting tiles.
- Concrete substrates should be cured 28 days before Flextight™ application.

- Concrete substrates should be wet cured; remove any membrane curing compounds.
- Radiant-heated floors must not be in operation 24 hours before, during, or 72 hours after installation. Follow Ceramic Tile Institute (CTI) recommendations for tiling over radiant-heated floors.
- If Flextight™ weathers for more than 28 days, a recoating is recommended to ensure adhesion of subsequent coatings or overlays.
- Do not add water or fresh mortar to Flextight™ that has already begun to set.
- Two void-free coats are necessary when used for water containment.
- Allow 14 days cure before submersion.
- Make certain the most current versions of product data sheet and MSDS are being used; call Customer Service (1-800-433-9517) to verify the most current versions.
- Proper application is the responsibility of the user. Field visits by BASF personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

Health and Safety

FLEXTIGHT™ PART A LIQUID

Caution

Flextight™ Part A liquid contains no hazardous materials.

Risks

Prolonged contact may cause drying and redness of skin. Inhalation of vapors may cause headache, dizziness and nausea. Ingestion may cause irritation of mouth, throat and stomach with nausea and abdominal pain. INTENTIONAL MISUSE BY DELIBERATELY INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

Precautions

KEEP OUT OF THE REACH OF CHILDREN. Prevent contact with skin, eyes and clothing. Prevent inhalation of dust. Wash thoroughly after handling. DO NOT take internally. Use only with adequate ventilation. Use impervious gloves, eye protection and if the TLV is exceeded or if used in a poorly ventilated area, use NIOSH/MSHA approved respiratory protection in accordance with applicable federal, state, and local regulations.

First Aid

In case of eye contact, flush affected area thoroughly with water at least 15 minutes. In case of skin contact, wash affected areas with soap and water. If irritation persists, SEEK MEDICAL ATTENTION. Remove and wash contaminated clothing. If inhalation causes physical discomfort, remove to fresh air. If discomfort persists or any breathing difficulty occurs or if swallowed, SEEK IMMEDIATE MEDICAL ATTENTION. Should vomiting occur, be sure to keep victim's head below hips to avoid aspiration of vomitus into the lungs.

Refer to Material Safety Data Sheet (MSDS) for further information.

Proposition 65

This product contains materials listed by the state of California as known to cause cancer, birth defects, or other reproductive harm.

VOC Content

0.5 lbs/gal or 6 g/L, less water and exempt solvents.

FLEXTIGHT™ PART B POWDER

Caution

Flextight™ Part B powder contains Portland cement, silica, crystalline quartz, iron oxide, anhydrite; limestone, magnesium oxide, calcium oxide.

Risks

Product is alkaline on contact with water and may cause injury to skin or eyes. Ingestion or inhalation of dust may cause irritation. Contains small amount of free respirable quartz which has been listed as a suspected human carcinogen by NTP and IRAC. Repeated or prolonged overexposure to free respirable quartz may cause silicosis or other serious and delayed lung injury.

Precautions

KEEP OUT OF THE REACH OF CHILDREN. Prevent contact with skin, eyes and clothing. Prevent inhalation of dust. Wash thoroughly after handling. DO NOT take internally. Use only with adequate ventilation. Use impervious gloves, eye protection and if the TLV is exceeded or if used in a poorly ventilated area, use NIOSH/MSHA approved respiratory protection in accordance with applicable federal, state, and local regulations.

First Aid

In case of eye contact, flush affected area thoroughly with water at least 15 minutes. In case of skin contact, wash affected areas with soap and water. If irritation persists, SEEK MEDICAL ATTENTION. Remove and wash contaminated clothing. If inhalation causes physical discomfort, remove to fresh air. If discomfort persists or any breathing difficulty occurs or if swallowed, SEEK IMMEDIATE MEDICAL ATTENTION. Should vomiting occur, be sure to keep victim's head below hips to avoid aspiration of vomitus into the lungs.

Refer to Material Safety Data Sheet (MSDS) for further information.

Proposition 65

This product contains materials listed by the state of California as known to cause cancer, birth defects, or other reproductive harm.

VOC Content

0.01 lbs/gal or 1 g/L less water and exempt solvents.

**For medical emergencies only,
call ChemTrec (1-800-424-9300).**

**BASF Construction Chemicals, LLC –
Building Systems**

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