



123 Columbia Court North • Suite 201 • Chaska, MN 55318

952-448-7377 • FAX: 952-448-2613
Fire Retardant "HOT LINE" 1-800-913-9385

e-mail: info@fireretardantsinc.com

Visit Our Web Site at www.fireretardantsinc.com

Product Information On:

BURN BARRIER™ GLAZE NO. 18 CLASS "A" FIRE RESISTANT TILE-LIKE FINISH COATING

Product Description:

BURN BARRIER™ Glaze No. 18 is designed for use over non-combustible substrates, and as a topcoat (overcoat) for BURN BARRIER™ No. 46081 and No. 46081X Thermal Insulating(Intumescent) Fire Retardant Two Component Epoxy Coating. It is suitable for both interior and exterior applications. This two component, Class "A" rated coating has the following outstanding properties; high-gloss finish, hardness, toughness, excellent color retention, as well as having excellent chemical and water resistant properties.

Application:

Prepare the substrate to be coated by removing all dirt, oil, grease, and other foreign matter. On previously coated substrates, remove all foreign matter and loose paint. Dull glossy surfaces. It is suggested a small area is tested, prior to full application, to determine compatibility with existing coating. If lifting or peeling occurs, totally remove all previous coatings, before applying BURN BARRIER™ Glaze No. 18.

Add Component "B" to Component "A" (2 quarts to 1/2 gallon, 1: 1. Mix well. Can be applied by brush, roller, conventional or airless spray. Thinning is not recommended; however, if desired for spray application, use only BURN BARRIER™ No. 18 Reducer, maximum 1/2 pint per gallon of activated material.

BURN BARRIER™ Glaze No. 18 will dry tack free in one to three hours, and will have very good overnight cure. The dry times and rate of cure, depends upon the film thickness as well as surface and surrounding air temperatures. Maximum cure is obtained in approximately seven days.

Properties (White):

Weight per gallon ... Part "A" 12.7 lbs., Part "B" 9.8 lbs.

Specific Gravity Part "A" 1.529, Part "B" 1.179

Total Solids by Weight ... 70%, Vehicle Nonvolatile - 60%

Pot Life 12 to 18 hours

Gloss at 60 Degrees90 plus, P.V.C. 15.5%

Coverage400 to 600 sq.ft./gl./coat, two coats recommended.

Tinting: Compatible with most tinting colorants that can be used with two part epoxy and two part urethane coatings.

Fire Tests:

Flame Spread Ratings: Class “A”. When tested in accordance with ASTM E-84 [NFPA 255, UL No. 723, ANSI 2.5, and UBC 8-1], the coating obtained the following fire hazard classification. Complete test reports available upon request.

FIRE HAZARD CLASSIFICATION

[When applied to Glass Reinforced Cement Board]

Coating System Details

Flame Spread

Smoke Developed

Primer - None
Type Glaze No. 18 applied at 400 sq.ft./U.S. Gallon 5 [19.83 m sq./L]
Top Coat - None

5

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Additional Test Results:

Solvent Resistant: 1 hour spot test; xylol - Fair (softens),
Ethanol – Fair (blisters), Mineral Spirits – Excellent.

Weatherability: Florida - South 45 Degrees Exposure

| | <u>60 Gloss</u> | <u>Burn Barrier™ Glaze No. 18</u> | <u>Urethane 2-Part</u> | <u>Catalyzed Epoxy</u> |
|----------------------|------------------------|--|-----------------------------------|-----------------------------------|
| Initial | | 97 | 95 | 100 |
| 6 months (unrubbed) | | 50 | 3 | 3 |
| 12 months (unrubbed) | | 9 | 3 | 3 |
| 18 months (unrubbed) | | 6 | | |
| 18 months (polished) | | 88 | | |

Yellowness: The higher the number, the greater the yellowing.

| | <u>Burn Barrier™ Glaze No. 18</u> | <u>Urethane 2-Part</u> | <u>Catalyzed Epoxy</u> |
|-----------------------------|---------------------------------------|----------------------------|----------------------------|
| 6 months unwashed/washed | 3.5/1/8 | 6.8/9.2 | 8.3/9.3 |
| 12 months unwashed/washed | 4.0/2/3 | 6.6/8.5 | 9.6/10.5 |
| 18 months (unwashed/washed) | 4.2/2.5 | | |

Chalking: 0 equals Best (no chalk), 20 Worst (loose or heavy chalk)

| | <u>Burn Barrier™ Glaze No. 18</u> | <u>Urethane 2-Part</u> | <u>Catalyzed Epoxy</u> |
|-----------|---------------------------------------|----------------------------|----------------------------|
| 6 months | 4-6 | 14 | 16 |
| 12 months | 6 | 14-16 | 14-16 |
| 18 months | 10 | | |

Chemical Resistance: BURN BARRIER™ Glaze No 18, compared with Urethane Epoxy and Alkyd Vehicles. 0 equals Best (No Effect), 20 equals Worst (Complete Failure).

| <u>Chemical</u> | <u>Exposure Time/Hours</u> | <u>Burn Barrier™ Glaze No. 18</u> | <u>Polyurethane 2-Part</u> | <u>Catalyzed Epoxy</u> | <u>Alkyd Resin</u> |
|-----------------|--------------------------------|---------------------------------------|--------------------------------|----------------------------|------------------------|
| 5% NaOH | 1 | 0-2 | 0-2 | 0 | 20 |
| 10% HLC | 1 | 0 | 0 | 6 | 0-2 |
| 10% NaCL | 18 | 0 | 0-2 | 0 | 2 |
| 28% NH OH | 1 | 2 | 2 | 0-2 | 14 |
| 30% H So | 1 | 0 | 0 | 6 | 0 |
| 50% Acetic Acid | 1 | 2 | 18 | 20 | 10 |
| 85% H PO | 1 | 0 | 8 | 6 | 8 |
| Water | 24 | 2 | 2 | 2 | 4 |

Stain Resistance: 24 hours, direct contact, exposure, 0 equals Best, 20 equals Worst.

| <u>Stain Media</u> | <u>Burn Barrier™ Glaze No. 18</u> | <u>Urethane 2-Part</u> | <u>Catalyzed Epoxy</u> | <u>Alkyd Resin</u> |
|------------------------|---------------------------------------|----------------------------|----------------------------|------------------------|
| Coffee | 0 | 12 | 8 | 12 |
| Grape Juice | 0 | 0-2 | 10 | 2-4 |
| Ink | 6 | 14 | 20 | 16 |
| Mustard | 2 | 18 | 10 | 18 |
| Tomato Paste | 0 | 6 | 2 | 6 |

WARNING FLAMMABLE LIQUID & VAPOR: CONTAINS XYLENE & PETROLEUM DISTILLATES.

VAPOR HARMFUL. MAY AFFECT THE BRAIN OR NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. CAUSES EYE, SKIN, NOSE AND THROAT IRRITATION. NOTICE: Reports have associated repeated and prolonged occupational over exposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Keep away from heat, sparks and flame. **VAPORS MAY CAUSE FLASH FIRE.** Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation.

USE ONLY WITH ADEQUATE VENTILATION: Do not breathe vapors or spray mist. Ensure fresh air entry during application and drying. If you experience eye watering, headaches or dizziness or if air monitoring demonstrates vapor/mist levels are above applicable limits, warrant appropriate properly fitted respirator (NIOSH/MSHA approved) during and after application. Follow respirator manufacturer's directions for respirator use. Close container after each use. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

FIRST AID: If you experience difficulty in breathing, leave the area to obtain fresh air. If continue difficulty is experienced, get medical assistance immediately. In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If swallowed, get medical attention immediately. If spilled, contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container and unused contents in accordance with local, state, and federal regulations.

KEEP OUT OF REACH OF CHILDREN

READ MATERIAL SAFETY DATA SHEET BEFORE OPENING CONTAINERS

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