

FLASHPATCH

PRODUCT #620

**VERY FAST SETTING
URETHANE/POLYUREA CONCRETE REPAIR
MATERIAL**

PRODUCT DESCRIPTION

A two-component, 70% solids, very fast setting, ultra low viscosity, high strength urethane/polyurea concrete repair material. **FlashPatch** is formulated for combination with clean dry sand for quick turn-around repairs on spalled and deteriorated concrete. Its quick build of compressive strength permits heavy forklift traffic in just minutes after placement. The product's low viscosity (24 cps) allows penetration into hairline cracks and sand fillers resulting in excellent adhesion to concrete.

Formulated for use in either interior or exterior applications, **FlashPatch** can be applied to 20° F and up to 90° F on dry substrates ONLY.

USES

- Fill and repair spalls and non-moving cracks prior to applying seamless floor coatings.
- Rebuild spalled control joints
- Grade transitions
- Patch and Grout Replacement in:
 - Warehouses
 - Chemical plants
 - Manufacturing and printing plants
 - Food processing and pharmaceutical facilities
 - Auto service areas and parking garages

ADVANTAGES

- Easy to use (eliminates need for bucket mixing)
- Can be applied down to 20°F
- Builds compressive strength rapidly
- Ultra low viscosity with excellent wetting and penetrating capabilities
- Supports heavy traffic loads in 15 minutes
- Quick turn-around service time

- Self-priming on virtually all concrete substrates
- Meets USDA requirements
- Low odor

LIMITATIONS

- Cannot be applied to moist substrates
- Limited shelf life after container is opened
- Will discolor if exposed to sunlight

PHYSICAL PROPERTIES

Solids	70%
Viscosity	24 cps
Specific Gravity	A = 1.108, B = 0.847
Hardness Shore D, ASTM D224	70
Tensile Strength, psi, ASTM D624	4500
Tear Strength lb/mil ASTM D624	489
Elongation %, ASTM D412	7
Compression Strength 2 Hr.	3900 psi (blended/sand) 3000 psi (neat)
Compression Strength 7 Day	4800 psi (blended/sand) 3900 psi (neat)
VOC grams/liter combined	5 g/l
Color	Charcoal gray
Exudation	None
Shrinkage	None
Pot life 100 gram mass	190 seconds
Approximate minimum application temperature	<ul style="list-style-type: none"> ▪ Product @ 70°F with substrate at 20°F = cure time = 45 minutes ▪ Product @ 70°F with substrate at 50°F = cure time = 20 minutes ▪ minutes
Maximum application temperature	<ul style="list-style-type: none"> ▪ Product and substrate at 90°F = cure time approx. 3 to 5 minutes

APPLICATION

FlashPatch may be applied by hand using the convenient **FlashPatch** Junior and Standard kits. Refer to **FlashPatch** Kits General Installation Instructions.

For larger patch or crack repair projects, **FlashPatch** may be applied using Thermal-Chem dual component dispensing machine.

FlashPatch is applied in six easy steps:

- Clean the area to be repaired
- Vacuum and remove all debris
- Fill repair area with silica sand
- Mix **FlashPatch**
- Saturate the silica sand with **FlashPatch**
- Clean up overfill

SURFACE PREPARATION

The concrete substrate must be clean, sound and free of dust or standing water. Remove all curing compounds, coatings, loose concrete and debris by abrasive blasting or chipping. For best results, sawcut edges of patch area to a depth of 1/4".

Where oil or grease build-up is present, the surface must be degreased with Thermal-Chem **ArmorClean**, Product 1103, or a comparable degreaser/emulsifier product to remove all contaminants. If contaminants continue to exist after repeated cleanings, additional concrete must be removed to reach clean, sound substrate material.

Warning: **FlashPatch** is moisture sensitive and should not be applied to wet or moist surfaces.

PATCHING and REPAIR

FlashPatch is a very low viscosity material with excellent "wetting" and does not require priming on most surfaces.

Once the crack or patch is clean and dry, fill with the 20 to 40 grit sand. Sand must be dry.

When repairing cracks or patches deeper than 2" always apply **FlashPatch** liquids first, then apply a 1-to-2 inch layer of sand and alternate liquids and sand until reaching finished grade level. Combinations of sand and clean, washed dry pea gravel may be used on deeper patches.

MIXING

Always individually mix components before applying with using a plural component dispensing machine. Plural component machines are available from Thermal-Chem.

PRODUCT SIZES and COLOR

FlashPatch is available in convenient Junior and Standard kits (includes sand and mixing vessels), and is also available in 10-gallon units.

FlashPatch is available only in Charcoal Gray.

PRODUCT STORAGE and HANDLING

Store in unopened containers at less than 85°F and out of direct sunlight. Shelf life of unopened container is approximately nine (9) months; an opened container is approximately two (2) weeks.

PRODUCT SAFETY

Read the Material Safety Data Sheet thoroughly before use.

Warning: For professional use only. Avoid contact of uncured material with skin and eyes. Wear protective shirts or overalls, rubber gloves, boots and safety glasses. Follow all application instructions and use only in manner specified. Do not use near high heat or open flame. Do not take internally and keep out of reach of children.

FIRST AID

Eye Contact: Flush with plenty of water for 15 minutes and seek immediate medical attention.

Skin Contact: Remove contaminated clothing and wash contact area with soap and water for 15 minutes.

Ingestion: If appreciable quantities are swallowed, seek medical attention immediately.

Inhalation: In case of exposure to high levels of vapor or mist, remove person to fresh air. If breathing has stopped, administer artificial respiration and seek medical attention immediately.

PRODUCT AVAILABILITY

Products are manufactured and available through the Thermal-Chem Corporation, 2120 Roberts Drive, Broadview, IL 60155 U.S.A.

Tel: 800/635-3773 ■ 847/229-9090

Fax: 847/288-9091

E-Mail: sales@thermalchem.com

Web Site: www.thermalchem.com

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TECHNICAL/SPECIFICATION SERVICES

Additional Product Data, complete Technical Support and Product Specifications are all available through the Thermal-Chem Corporation; or their local representatives.

Every reasonable precaution and effort has been taken in the manufacturer of all Thermal-Chem products to comply with published product data. Actual product performance may vary slightly due to environmental influences and/or conditions.

LIMITED WARRANTY

Thermal-Chem Corporation warrants its product to be of good quality and will replace any product proved defective. Satisfactory results depend not only upon quality products but also upon many factors beyond our control. Therefore, except for such replacement, **THERMAL-CHEM CORP. MAKES NO**