Bonstone Materials Corporation
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TECHNICAL DATA SHEET

FILE UNDER DIVISION 4

1. PRODUCT NAME

LAST PATCH™ FLOWING

2. MANUFACTURER

Bonstone Materials Corporation

3. PRODUCT DESCRIPTION

A kit packaged exterior grade stone repair compound. Designed for addition of stone aggregate, overfill of patch area, and grinding flush.
This product exhibits far superior color stability and gloss retention when compared to epoxy and polyester patching materials.

Options:

Cure

Fast 20 min@ 70F

Color

Std. Clear, custom color as required

Applications

- Overfill and grind patching with stone aggregate
- Travertine fill with or without aggregate
- Dutchman installation (Replacement of stone pieces)
- Patching granite & marble

Limitations

Use on dry stone. Use on oil, grease, and coatings free stone. Store product at room temperature and limit humidity exposure. Do not store at or near freezing temperatures.

4. TECHNICAL DATA

(see next page)

5. INSTALLATION

General Instructions

(See separate dutchman and travertine filling instructions for more specific instructions. CSI format specifications are available)

Surface Preparation and Use

Use gloves, wear eye protection, and avoid skin contact. When grinding cured product wear a dust mask. Substrate to be patched must be completely dry and dust free. Mix and apply the entire kit at one time. Avoid stressing the joint before complete cure of product. Mask areas which must be kept free of product. Clean uncured product from tools with toluol or xylol. (Use caution, these solvents are flammable. Ensure local ventilation.) Remove cured product mechanically.

Mixing Instructions

Last Patch™-Flowing has a mix ratio 1:1 by volume. Product can then be tinted (do not exceed 5% by weight colorant addition.) Product can then have stone aggregate added. Apply with trowel or other implement into and over the area to be repaired.

Temperature Dependency

The adhesive, substrate, aggregate, and environment's temperature will affect the working properties of the material. With all items at 70^0F (21.1 ^{0}C) the standard product will set up in approximately 15-20 minutes. Grinding may be performed in several hours. Full cure 48 hours

Coverage

2 oz. kits contain about 4 cubic inches of product. Call Bonstone for coverage of your project.
Stone aggregate is often approximately 50% of a patch volume, so double the volume of the cartridge for a rough estimate of coverage.

Packaging and storage

The Last Patch™ is available in kit form & quarts. Standard kits are packaged in 2 fluid ounces, and quarts. Standard kits and quarts are clear, flowing product. Special kits may be ordered. Modification of standard kits for color matching requires at least 2 weeks from time of order. Special size or viscosity products will vary with prior experience and normally take 6 to 8 weeks for production and delivery.
Shelf life is printed on the product label. It is generally 6 months to one year from date of packaging.
Store at room temperature (well above freezing) and at a relative humidity below 50%.

7. WARRANTY

This product's warranty is limited to replacement of defective material and freight charges to destination only. Bonstone Materials Corporation is not responsible for consequential damages.

8. MAINTENANCE

This product is designed for application in areas inaccessible to maintenance procedures. Some powerful etching compounds, especially those containing hydrofluoric acid, may degrade the material.

9. TECHNICAL SERVICE

Lab Service

- Spectrophotometric color matching is available.
- Sample patches can be made on stone forwarded to lab.

Specification Service

- Specifications on file
- Development of proposed specifications for special projects.

4. TECHNICAL DATA — LAST PATCH™ FLOWING

MIXED PROPERTIES	***VALUES***	***TEST METHODS***
Mix ratio	2oz. Kit packaged (Use entire kit) Plastic containers 1:1 mix ratio (Pint & Quart cases)	
Mixed Viscosity at 75^{0}F (standard product)	Flowing (holds peak)	
Pot Life at 75 ^{0}F	2 minutes Std. high speed version	
Initial set time at 75^{0}F	15-20 minutes	

UV TESTING: QUV with SOLAR EYE

(Cycles; 4 hours condense @ 50°C, followed by 8 hours UV-A-340/ 0.8 intensity/ 60°C).
Total of 500 hours
Results: * No change in yellow index
* ΔE= 0.78

CURED PROPERTIES

Strengths		
Cohesive		
Tensile	382 psi	ASTM D-638
Compressive	6876 psi	ASTM D-695
Adhesive (on Academy Black Granite)		
Shear	792 psi	ASTM D-905
Moduli		
Cohesive		
Tensile	1796 psi	ASTM D-638
Compressive	42,022 psi	ASTM D-695
Elongation		
Cohesive		
Tensile (at break)	20.7 %	ASTM D-638