



DSP™ 506

Fast-Set Deep Patch

PRODUCT DATA

1. PRODUCT NAME

Dramatic Surface Products™
DSPTM 506 Fast-Set Deep Patch

2. MANUFACTURER

H.B. Fuller Construction Products Inc.
1105 South Frontenac Street
Aurora, IL 60504-6451 U.S.A.
800.323.7407 Office
800.952.2368 Fax
www.DramaticSurfaceProducts.com

3. DESCRIPTION

DSP 506 Fast-Set Deep Patch is a cement-based underlayment designed specifically for deep fills, ramping, and leveling concrete and plywood subfloors (dry areas only) from featheredge up to 1½" (38 mm) in a single application, up to 5" with proper aggregate. Can be applied with steel trowel, float and/or screed to produce a smooth, level surface. DSP 506 Fast-Set Deep Patch cures to a walkable surface in approximately 60 minutes.

Product Features

- Calcium aluminate technology for rapid strength development
- Easy to use! Mix with water only - no latex additive necessary
- Featheredge to 1½" in a single application, up to 5" with proper aggregate
- Fast-set - allows for quick installation
- High bond and compressive strengths
- Provides smooth surface ready to accept flooring

Packaging

25 lb. Moisture Resistant Bag (11.34 kg)
Product #70-5689-3018

Coverage

Coverage shown is approximate.
Actual coverage may vary based on substrate conditions.

Thickness	1/8" (3mm)	1/4" (6 mm)	1/2" (12 mm)	1" (25 mm)
Approximate Coverage per 25 lb. (11.34 kg) Bag	30-32 ft ² (2.8 - 3.0 m ²)	15-16 ft ² (1.4 - 1.5 m ²)	7-8 ft ² (0.65 - 0.74 m ²)	3.5-4 ft ² (0.33 - 0.37 m ²)

Suitable Substrates

- Concrete
- Burnished concrete*
- Cement terrazzo
- Epoxy terrazzo*
- Epoxy coatings*
- Ceramic tile (including porcelain and quarry tile)*

- Exterior grade plywood (APA grade trademarked exterior plywood, C-C (plugged) or better (no additive needed))
- Gypsum substrates* - minimum tensile bond strength 72 psi (0.5 MPa)

*Requires priming with DSP 500 Primer

Storage/Shelf Life

Store in a cool dry area away from direct sunlight. Maximum shelf life is 6 months from date of manufacture in unopened bag.

Limitations

For interior use. Do not apply when the temperature is at or expected to be below 50°F (10°C). Not for use in conditions of hydrostatic pressure or excessive moisture. Not recommended for use as a wear surface. Not for use over sealed concrete, resilient flooring, strip wood flooring, tempered hardboard, particle board or luan plywood.

Cautions

Read complete cautionary information printed on product container prior to use. For medical emergency information, call 1-888-853-1758.

This product data sheet has been prepared in good faith on the basis of information available at the time of publication. It is intended to provide users with information about guidelines for the proper use and application of the covered Dramatic Surface Products under normal environmental and working conditions. Because each project is different, H.B. Fuller Construction Products Inc. cannot be responsible for the consequences of variations in such conditions, or for unforeseen conditions.

4. TECHNICAL DATA

DSP 506 Fast-Set Deep Patch	
Physical State	Dry powder
28 Day Compressive Strength	4,200 psi
28 Day Flexural Strength	1,100 psi
Working Time	15-20 minutes
Walkable Hardness	Approximately 60 minutes
Install Floor Covering*	1-1½ hours

*Flooring material installation is dependent on thickness, drying conditions and type of flooring.

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5. INSTALLATION INSTRUCTIONS

Preparation of Surfaces

All surfaces must be structurally sound, dry and free from oil, grease, dust, loose or peeling paint, sealers, floor finishes, curing compounds or any contaminant that would prevent a good bond. Minimum tensile bond strength of 72 psi (0.5 MPa) is required. Substrate temperature should be a minimum of 43°F (6°C) during application and air temperature maintained above 50° (10°C). DO NOT cover existing building expansion or control joints. Remove all dust by vacuuming. For surfaces that require priming, use DSP 500 Primer per label instructions. Not recommended for use over expansion or control joints.

DSP 506 Fast-Set Deep Patch can be installed over new or moist concrete with RH of 95% or less. For moisture sensitive floor coverings refer to the finished floor manufacturer's specifications on moisture limitations. Remediation of excessive moisture conditions must be addressed prior to the installation of DSP 506 Fast-Set Deep Patch. To reduce moisture vapor emissions to an acceptable level, use DSP 508 Moisture Mitigator (see product data sheet for details).

For installation over cutback adhesive, remove adhesive by scraping until all that remains is a thin transparent layer of adhesive residue.

Instructions for Mixing

Slowly add the entire bag of DSP 506 Fast-Set Deep Patch to 2 – 2½ quarts (1.9 - 2.4 L) of clean, cool water and mix with a high power drill (650 RPM). Avoid breathing dust and contact with eyes and skin. Mix thoroughly to a smooth, lump-free consistency. Smaller amounts may be hand mixed, 3½ parts DSP 506 Fast-Set Deep Patch to 1 part water.

How to Apply

Immediately after mixing, apply DSP 506 Fast-Set Deep Patch onto the flooring substrate. Using a trowel or screed, work the material into the substrate and then finish with a steel trowel to a smooth level surface. Working time is approximately 15-20 minutes, depending on ambient temperature and relative humidity. High temperatures and low humidity will shorten working time. DSP 506 Fast-Set Deep Patch can be applied from a featheredge up to 1½" (38 mm) depth in a single application. Up to 5" thickness may be poured with the addition of aggregate (well-graded, washed, and dried at ⅛" or ¼"). To ensure proper bond, all aggregate and substrate must be completely coated with the underlayment mixture. Do not use sand. For further information, please contact your Dramatic Surface Products representative.

The Curing Process

DSP 506 Fast-Set Deep Patch achieves walkable hardness in approximately 60 minutes. Installation of most floor covering materials can be applied within 1 to 1½ hours. When hot, dry or windy weather conditions exist, DSP 506 Fast-Set Deep Patch should be protected to avoid rapid water loss during curing period. DSP 506 Fast-Set Deep Patch is cement-based, and all general rules of concrete work should be observed to achieve maximum results. Never use forced air to accelerate the drying of DSP cement-based products. For best results, always test performance of finished floor systems prior to application.

To Clean

Wash tools, hands and equipment with warm soapy water while material is still fresh.

6. AVAILABILITY AND COST

To locate a distributor in your area, please contact 800-621-0220.

7. WARRANTY

H.B. Fuller Construction Products Inc. (HBF-CP) offers a 5-year limited warranty on this product when installed in accordance with HBF-CP's printed specifications. Ask your sales associate or call 800-621-0220 for a copy of the limited warranty.

8. MAINTENANCE

Not applicable.

9. TECHNICAL SERVICES

Technical Assistance:
Information is available by calling 800-621-0220.

Technical and Safety Literature:

To acquire technical and safety literature, please call 800-621-0220.

10. FILING SYSTEM

Division 3 – Concrete
Division 9 – Finishes



Environmentally Conscious
Manufacturer