



Concrete Patch

MOXIE SHIELD 2000

is a high strength, waterproof, two part, polymer modified cementitious compound ideal for crack repairs, patching or resurfacing concrete and masonry construction.

AT A GLANCE

Moxie Shield 2000 Concrete Patch is suitable for new and existing concrete above and below grade. Ideal on interior or exterior, vertical or horizontal applications. Moxie Shield 2000 Concrete Patch improves abrasion, durability and adhesion and may be applied feather edged, up to a thickness of $\frac{3}{4}$ " without additional fillers. Adheres to concrete, wood and galvanized steel.

RECOMMENDED USES

- Suitable for general use
- Ideal for crack repairs
- Appropriate as a cove base
- Resurfacing of concrete, e.g. concrete floors, steps, curbs, gutters, parking decks, roadways
- Moisture/Acid exposed surfaces
- Fitting for floors, walls, stucco, gunite and shotcrete repairs

ADVANTAGES

- Waterproof
- Skid resistant
- Suitable for above and below grade application
- Will not peel, crumble, dust or crack
- Fire resistant
- High impact and freeze-thaw durability
- Increased tensile and flexural strength
- Abrasion resistant

Technical Data

Moxie Shield 2000 Concrete Patch has been solving problems on job-site settings for over 40 years and is laboratory and field tested. The Moxie Shield 2000 Concrete Patch has a working time of 30 minutes and a set time of 3-4 hours.

- Compressive Strength = 3890 psi @ 48 hours
- Adhesion in Shear = 389 psi @ 48 hours

Sustainability

- Building for future generations – The Moxie technology strengthens the inner structure of concrete and leads to longer lasting quality structures.
- Non-Toxic/Non-Hazardous – The liquid Moxie Shield 2000 Concrete Patch is not toxic or hazardous.

Coverage Rate

A 70 lb unit of Moxie Shield 2000 Concrete Patch mixed with a 50/50 mix of clean water and binder to desired consistency will yield approximately 1 cubic foot of ready-to-use patch.

- Surface Coverage: (1) one 70 lb kit will cover 7 square feet @ 1" thick.
- Lineal Coverage: (1) one 70 lb kit will fill 280 lineal feet @ 3/4" x 1/2" deep.
- Slurry Coat: (1) one 70 lb kit will coat 224 square feet @ 1/32" thick.

Preparation

Surface: Surface to be patched must be free of chemicals, oil, grease and all loose foreign materials. Refer to Moxie Shield 3000 Concrete Soap to clean the surface. For increased durability and even load distribution from traffic, area should be slightly under cut, roughened and free from all deleterious material and standing water. Shot blasting or scarifying may be recommended.

Surface Primer: To make the surface primer, dilute binder with an equal quantity of water (50% water/50% binder) for priming the surface as described under application.

Patching Mortar: It is recommended to mix a maximum of 5 pounds of patch at a time. Measure out 5 pounds of dry patch material in a container and set aside. Mix 8 ounces of both water and binder thoroughly in a separate container (for a vapor proof patch add 2 ounces of Moxie Shield 1800 Admixture to the water/binder mixture – see below). Progressively combine the water/binder mixture with the dry patch material until the consistency is suitable for troweling (roughly the consistency of peanut butter).

Water & Vapor Proof Patching Mortar/Slurry: To produce a water and vapor proof patch, mix 4 ounces of Moxie Shield 1800 Admixture per 10 lb unit in addition to the above mixing instructions. Moxie Shield 2000 Concrete Patch with the addition of Moxie Shield 1800 Admixture cannot be removed from brick or CMU once cured. All mortar residue must be removed as it is being applied.

Application

1. Dampen surface with water, mist, spray bottle or Hudson sprayer.
2. Using a paint brush, apply the surface primer (diluted binder) to prime the surface.
3. Take a small amount of patching mortar and brush into the primed area, working it into any cracks, pits, or crevices. Apply patch while binder is still damp and has a "purple/greenish" color. Do not apply patch if binder has dried, area must be re-primed.
4. Apply the remainder of patching mortar to be pre-treated area.
5. Trowel until desired finish is achieved. Avoid over-troweling. If surface appears hard, sprinkle with water and complete your finish. Keep tools clean with water. Moxie Shield 2000 Concrete Patch will permanently bond to tools.

Packaging

Moxie Shield 2000 Concrete Patch is available in a 10 pound (4.5 kg) unit, 20 pound (9.1 kg) unit, 40 pound (18.1 kg) unit and 70 pound (31.8 kg) unit.

Additional Information

Do not apply Moxie Shield 2000 Concrete Patch when ambient temperatures are under 40° F (5° C) or will fall below these temperatures within 24 hours. Do not store the binder under freezing conditions; it must be discarded if frozen.

Troweling will be slightly more difficult than standard concrete. Solvent-containing coatings should be avoided. Do not over-trowel.

For applications of approximately ¾" or thicker add up to 15 lb of clean, angular, pea gravel per 70 lb unit of Moxie Shield 2000 Concrete Patch.

Concrete patch may shrink with higher w/(c+p) ratio patch mixtures.

Related Documents

SDS

3201 Swetzer Road, Loomis, California 95650 - USA
Sales Inquiries: 888.680.7303 Fax: 877.330.1930
E-mail: sales@moxieshield.com

www.moxieshield.com



Vapourproofing Concrete. Strengthening Foundations.



V_11/17_US