valspar FLOORING

EC-4
EPOXY PATCH

Technical Data Sheet

DESCRIPTION:
A 100% solids, three component epoxy patch kit. It consists of a Resin and a Hardener and a specially blended bag of aggregate.

USES:
Designed for patching and repairing worn and eroded concrete floors in a variety of industries from light to heavy duty. Can be mixed and applied on the job site at a 1/4 inch or greater. Formulated to repair and protect concrete floor areas that have been subjected to the harsh effects of abrasive traffic and strong chemical spillages.

ADVANTAGES:
- Pre-packaged for error free use
- Exceptionally easy to apply
- Fast curing...little downtime
- Three times stronger than concrete
- Solvent free...safe to use
- Resists a broad range of chemicals
- Resistant to steel-wheeled traffic
- USDA Approved

PACKAGING:
Each unit consists of one can of Part "H" Hardener, one can of Part "R" Resin and one bag of Part "C" Aggregate. All three components are packed in a pail, which also serves as a mixing vessel.

COVERAGE:
Each unit will yield 0.30 cubic feet of patching compound, which equals approximately 15 sq. ft. at a nominal 1/4 inch thickness.

SURFACE PREPARATION:
In general, the area to be surfaced must be clean, sound, dry and above 60℉ to assure a successful installation. All oil, grease, wax, laitance, curing compounds, water soluble concrete hardeners and other surface contaminants must first be removed. PC-43 WASH OFF REMOVER or PC-46 DRY EZE should be used for removal of sealers, finishes or paints.

Then PC-40 DYNOMITE is used as directed with wire or a stiff bristled brush, scrubbing to remove all traces of grease, oil, and dirt followed by a thorough rinsing to remove all cleaning residues. Next, use a squeegee to remove any excess water. Any remaining water should be removed using a wet/dry vacuum. Loose or soft concrete must be removed by scarifying, sand blasting or high pressure water cleaning.

To remove laitance and to give a slight texture to the area to be surfaced, acid-etch using PC-42 ACID CONDITIONER at a 1:1 dilution with water according to the instructions on the container.

If acid cannot be used, mechanically abrade (by "shot-blasting" for example) the surface to the texture of a medium grit sand paper, then sweep and vacuum up any remaining dust.

The EC-4 EPOXY PATCH is designed to be a self priming system, but in areas of very rough course concrete, an epoxy primer is recommended to ensure a good bond. PR-7 or PR-14 should be used over damp concrete areas.

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STANDARD TESTS:
Refer to the standard test methods below for further information.

ASTM D 4258-83	Standard Practice for Surface Cleaning Concrete for Coating
ASTM D 4259-83	Standard Practice for Abrading Concrete
ASTM D 4260-83	Standard Practice for Acid Etching Concrete
ASTM D 4262-83	Standard Test Method for pH of Chemically Cleaned or Etched Concrete Surfaces

MIXING:
Before proceeding with the mixing and application, determine if the surface and/or material temperature is above 60℉ and that the surface is properly prepared.

1. First, the Resin and Hardener components are thoroughly blended together for approximately 2 minutes.
2. Then the blended liquids are emptied into the pail that the EC-4 EPOXY PATCH was shipped in. The Part C Aggregate is then poured into this pail containing the liquids and blended completely with the aggregate using a "Jiffy Mixer" at low speed for approximately 2 to 3 minutes.

APPLICATION:

1. This epoxy mortar mixture is immediately used to fill in any holes, cracks and crevices first using a margin trowel.
2. Then the material is spread with a rake or trowel to the appropriate thickness required.
3. Finally the material is finished to a smooth surface using a steel finishing trowel.

The finished surface should be relatively smooth, free of trowel marks and without open areas.

POT LIFE:
Approximately 35 minutes @ 75℉. This pot life is based on not leaving the mixed material in the mixing pail any longer than absolutely necessary.

CURE TIME:
At a cure temperature of 75℉, allow 7-8 hours for foot traffic, 18-24 hours for light loads. For chemical spillages and heavier loads, allow a minimum 72 hours.

CLEAN UP:
Equipment should be cleaned immediately after use with soap and water or UR-9 MCU THINNER.

LIMITATIONS:
Do not use on mastic, asphalt, painted surfaces, quarry tile or latex concrete surfaces.

Technical Data Sheets are updated periodically. To ensure the most current version is being used call Marketing at 1-800-637-7793.

Proper material application is the responsibility of the user. Site visits made by Valspar personnel are for making technical recommendations only and not for supervising or providing quality control

Do not use on surfaces where the application and/or cure temperature will be below 60℉.

Do not use in areas where operating temperatures are continuously over 150℉.

REFER TO MATERIAL SAFETY DATA SHEET FOR FURTHER SAFETY AND HANDLING INFORMATION.

See individual labels for more caution statements.
KEEP OUT OF THE REACH OF CHILDREN.

DISPOSAL:
Dispose in accordance with federal, state, and local regulations. Use licensed hazardous waste company.

Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned.

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