



4930 Polyurea Crack & Spall Filler System Installation Guide

SYSTEM DESCRIPTION

4930 Polyurea Crack & Spall Filler is a VOC-compliant high solids two-component material formulated for use as a rigid spall and crack filler on concrete flooring. This is a professional grade product with a short working time. 4930 Polyurea Crack & Spall Filler is primarily used as a concrete crack filler to prevent spalling of concrete joints while allowing load transfer through the rigid polymer backbone.

SYSTEM COMPOSITION

Special proprietary blend of polymers and curing resins made up of the following components:

PRODUCTS	Coverage Rate
1. 4930 Polyurea Crack & Spall Filler – Two-component polyurea	240 - 520 lineal feet per kit

SUBSTRATE REQUIREMENTS

CONCRETE

All concrete shall be clean and bare. Concrete shall be structurally sound and stable. Concrete shall be free of dust, dirt, grease, contamination, surface laitance, and other potential bond-breaking substances that could impair adhesion. Substrate and ambient temperatures must be above 35°F during installation of coating. Relative humidity should not exceed 65% during installation of the coating. Environmental conditions must not be near the dew point during installation of the coating.

OTHER SUBSTRATES

Versatile only recommends its 4930 Polyurea Crack & Spall Filler for use over concrete. All other substrates are done at the user’s own risk.

ADVICE BEFORE INSTALLATION

MIXING PRODUCTS

4930 Polyurea Crack & Spall Filler is a 2-component product that has a noticeably short pot-life of 3 – 5 minutes depending on temperature and relative humidity conditions. Be sure to mix each component thoroughly before the application. Cure times will be affected by environmental conditions. Do not force dry. High humidity and/or low temperatures can cause excess bubbles or, under-cured material, respectively, in the coating. **Large masses of mixed and/or heated material will have an extremely short pot-life.**

** Caution: If you are not familiar with the products, do not mix more than eight fluid ounces (½ pint) at a time. The more material that you mix, the shorter your pot life (working time) will be.*

HOT WEATHER TIPS

4930 Polyurea Crack & Spall Filler has a short pot life in very hot conditions. Keep the material core temperature around 55 - 70°F if possible. Icing the buckets hours before doing job or placing in a cool environment the day before application can help by lowering the core temperature.

COLD WEATHER TIPS

The 4930 Polyurea Crack & Spall Filler is temperature sensitive. At colder temperatures, the dry and cure time will be extended. Keep the material core temperature around 55 -70°F if possible.



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INSTALLATION STEPS

1. Preparation

Remove any loose concrete from the repair area. Clean the area with a Nyalox style brush or wire wheel and vacuum the area to remove any dust.

2. Mixing

Mix each A & B component separately for 3 minutes. Combine a small amount (approximately 8 ounces) of the A component with the B component and mix. Be sure to work quickly as the mixed material will set up in 3-5 minutes at 75° F.

Note: If desired, sand can be added to increase strength and volume. Mix 3 parts sand with 1 part of the A-Component. Then add the B component. The working time will be very short so be ready to spread the material in within 2 minutes. The mixed material will initially be trowelable (slightly runny) and build viscosity very quickly. Other “dry” products such as portland cement, tile grout, etc. can be added for color can texture.

3. Application

Pour mixed product into the area being repaired by slightly over filling the crack or spall. Continue to force more product into area until it stops sinking into the cavity.

4. Finishing

Clean the overfilled product using a concrete 30 or 50 grit satellite pad or a metal cup wheel on an angle grinder. Grind until repair is flush with concrete.

CLEAN-UP

Immediately clean up tools with MEK, Acetone or other solvent. Clean hands and exposed skin with mild soap and water, and/or citrus-based hand cleaner.

ADDITIONAL CAUTIONS AND RECOMMENDATIONS

- Store material at 50-75°F
- Do not force dry the mixed components of the Polyurea Crack & Spall Filler.
- Always wear protective clothing, gloves, and equipment as required by OSHA and as necessary.
- Turn off all sources of ignition and follow safety guidelines listed in product sections.
- Please Read all Safety Data Sheets, 2 Component Versatile Chemical Safety Guide and Individual Product Installation Guides before commencing work.

TECHNICAL SERVICES

- Contact the Technical Services department directly at 714-829-2600.