

# Dek-Fill



## Dek-Fill Epoxy Crack Filler

Patch • 6290\*  
**Special Order**

### Product Description

Dek-Fill is a two component 100% solids epoxy crack filler designed for minor to moderate concrete repairs on either vertical or horizontal surfaces. This product is easy to mix and use and has a non-critical mix ratio. The 100% solids formulation allows this product to be applied thicker on horizontal surfaces when required, up to 1/4" in thickness per application.

### Recommended Substrates

- Interior properly prepared concrete floors or walls
- Properly prepared cracks in concrete
- Warehouses, kitchens, restroom and garage floors

### Product Features

- Low VOC and low odor
- Corrosion, chemical & solvent resistant
- Can be topcoated immediately with solvent based epoxies or urethanes on repairs < 1/8" in thickness
- High build up to 1/4" - may sag at greater thickness on vertical substrates
- Self-priming on properly prepared concrete

### Product Limitations

- For use on properly prepared floors.
- Do not apply if air, product & substrate temperature is <60° or >90° F.
- Substrate must be 5° F above dew point.
- Should be topcoated with approved epoxy or urethane floor coatings
- Expect longer dry times at lower temperatures & low relative humidity
- This product is not color stable and may be affected by high humidity, low temperatures, chemical exposure or exposure to lighting such as sodium vapor lights.
- A moisture barrier is required when applied on grade.
- Always test floor cleaners for ill effects before widespread use.

**Application:** Trowel  
**Flash Point:** >200°F Non-Flammable  
**Clean Up:** Xylene  
**Available Colors | 6290** Gray - color may vary from batch to batch  
**Packaging Information:** 2 Gallon Kits (-22.3 lbs)  
 10 Gallon Kits (-111.5 lbs) \*Special Order

### Compliance

These products are VOC compliant based on limits provided by EPA, CARB, MPI GPS-1, MPI GPS-2, LEEDv4, OTC and SCAQMD.

### Product Data

**Product Type:** Epoxy  
**6290**  
**Gloss @60°:** N/A  
**Wt Solids ±2%:** 100%  
**Vol Solids ±2%:** 100%  
**Wet Film Mil:** N/A  
**Dry Film Mil:** N/A  
**Coverage / Gal \*** 0.13 ft<sup>3</sup> / kit or 1220 lineal feet @ 1/8"

\* coverage and wet and dry millage will vary by substrate type and porosity.

**VOC gms p/L\*\*:** <11  
 \*\* less exempt solvents and before the addition of colorant

**Viscosity KU ±5:** N/A  
**Dry time @ 50% RH\*\*\*:** 5 - 10 HRS to touch  
 0 - 2 HRS to recoat  
 10 - 24 HRS light foot traffic  
 7 Days full cure

\*\*\* dry times, pot life & recoat times listed may vary according to the relative humidity, temperature, film build, color and air movement of the application environment

**Induction Time:** None  
**Pot Life:** 1 - 3 HRS @ 77°F & 50% Relative Humidity  
**Recoat Window:** 24 HRS\*\*\*\*

\*\*\*\* >24 hours, product must be abraded before re-coating

**Shelf Life:** Six (6) months in unopened containers

### Horizontal Traffic Types:

|                    |   |                           |   |
|--------------------|---|---------------------------|---|
| Light Foot Traffic | Y | Vehicular Traffic         | Y |
| Heavy Foot Traffic | Y | Forklift                  | Y |
| Steel Wheel Carts  | Y | Heavy Vehicle & Equipment | Y |

### Return to Service Time Chart

@ 70°F & 50% Relative Humidity

|                    |        |                           |        |
|--------------------|--------|---------------------------|--------|
| Light Foot Traffic | 24 HRS | Vehicular Traffic         | 7 Days |
| Heavy Foot Traffic | 3 Days | Forklift                  | 7 Days |
| Steel Wheel Carts  | 3 Days | Heavy Vehicle & Equipment | 7 Days |

\*May vary by relative humidity, temperature, film build, color & air movement of the application environment.

### Chemical Resistance Chart

**Y = Resistant**    **N = Not Recommended**    **S = Splash / Spillage**

|                |    |                       |    |                      |    |
|----------------|----|-----------------------|----|----------------------|----|
| Acetic Acid 5% | N  | Butanol Alcohol       | N  | Motor Oil            | Y  |
| Animal Urine   | Y  | Ethyl Alcohol         | N  | Skydrol              | S* |
| Antifreeze     | Y  | Gasoline              | S* | Sodium Hydroxide 10% | Y  |
| Bleach         | Y  | Hydrochloric Acid 10% | S* | Sulphuric Acid 10%   | S* |
| Brake Fluid    | S* | Methyl Ethyl Ketone   | N  | Xylene               | S* |

\*May stain unless promptly removed

### Performance Testing Data

|                      |            |                                       |
|----------------------|------------|---------------------------------------|
| Abrasion Resistance  | ASTM D2486 | CS-17, 1000 g, 500 cycles, 36 mg loss |
| Adhesion             | ASTM D4541 | 350 PSI, 100% concrete failure        |
| Compressive Strength | ASTM D695  | 8,710 PSI                             |
| Flexural Strength    | ASTM D790  | 7,500 PSI                             |
| Hardness (Shore D)   | ASTM D2240 | 65                                    |
| Impact Resistance    | D5420      | Pass - direct, 50 in. Lb.             |
| Tensile Strength     | ASTM D638  | 6,256 PSI                             |
| Ultimate Elongation  | ASTM D882  | 2.4%                                  |

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### Surface Preparation:

Sweep the floor to remove all excess dirt and debris. Any wax, grease or oil must be removed with a degreaser type cleaner. Clean the floor a section at a time (10' x 10') with a strong detergent using a stiff broom to scrub the surface. Thoroughly rinse with a hose and allow floor to dry completely. If necessary, use a squeegee to remove any standing water.

**Mildew** - Surface areas affected by mildew should be treated with a commercial mildew removal and/or wash product carefully following manufacturer's application and safety directions. Rinse thoroughly with clean water, and allow a minimum of 24 hours to dry thoroughly.

**Previously Painted & Bare Concrete:** This product is intended for hairline cracks and other fractures up to an 1/8 inch in width. Remove all unsound concrete from within the crack to be repaired and thoroughly vacuum all debris and dust from within the crack opening. Sweep and vacuum any remaining dust, dirt or contaminants with a wet/dry vacuum. All dirt, foreign contaminants, and laitance must be removed to assure a trouble-free bond to the substrate. A test should be made to determine that the concrete is dry; this can be done by placing a 4'X4' plastic sheet on the substrate and taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate is dry enough to start coating. The plastic sheet testing is also a good method to determine if any hydrostatic pressure problems exist that may later cause disbanding.

**Directions and Tools Required:** Margin trowel, putty knife or broad knife. See Florida Paints Floor Coatings Application Guide for additional details on application tools and methodologies.

**Priming:** Priming is not required, but for additional adhesion; prime concrete with FP6550 Dek-Prime Waterborne Epoxy Primer before applying this product.

**Mixing Instructions:** This product has a mix ratio of 1 part A to 1 part B by volume. Standard packages are in pre-measured kits and should be mixed as supplied in the kit. We highly recommend that the kits not be broken down unless suitable weighing equipment is available. After the two parts are combined, mix well with slow speed mixing equipment such as a jiffy mixer, putty knife or spatula until the material is thoroughly mixed and uniform in color. Improper mixing may result in product failure. Do not re-use containers as there will be material left in the can that will re-wet with new product and cause curing issues.

**Neither Component Will Work Unless Mixed With The Other!** Do not re-use containers that have been converted or mix with previously catalyzed material.

**Application:** Apply when surface, product and ambient temperatures are above 60° F and below 90° F; and relative humidity is <85%. Avoid paint application when weather conditions are threatening, and late in the day when there is a threat of moisture condensing on wet paint. When repairing cracks that are less than 1/8" thickness, many epoxies can be placed directly over the applied crack filler before it is cured. Alternatively, it is also acceptable to allow the material to cure before installing the coating. If excessive amounts are spread well beyond the crack repair or in an areas where surface repairs have been implemented, it is best to check the cured areas for any possible amine blush (a whitish, greasy film or deglossing) prior to coating over this material. If a blush is present, it can be removed by any standard type detergent cleaner prior to topcoating or recoating. Many epoxy coatings and urethanes are compatible for use over this product as well as multiple coats of this product.

**DO NOT THIN:** Mix thoroughly and apply as it comes from the container. Thinning is not necessary.

**Recoating:** If a topcoat is to be applied, stay within the recoat window or the surface will have to be sanded or screened to create a mild profile. Check the coating to be sure it has tacked off and that no epoxy blushes were developed (a whitish greasy film or deglossing). If blushing is present, it must be removed with warm soapy water and abrasive pad or xylene.

**Clean Up:** Minor spills, painting tools and spray equipment should be immediately with xylene. More serious spills should be contained and removed with inert absorbent material. Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations.

### SAFETY:

**CAUTION:** Avoid prolonged contact with skin, and breathing of dust, vapors and/or spray mists. Causes eye irritation. USE WITH ADEQUATE VENTILATION! Ensure fresh air entry during application and drying. If you experience eye water, headache or dizziness, or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriately fitted respirator, (NIOSH approved), during and after application. Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes, skin and clothing. Use chemical safety glasses, goggles or a face shield for proper eye protection. Wash thoroughly after handling and before eating or smoking. Close container after each use. DO NOT TAKE INTERNALLY!

**CAUTION!** There is the potential to release lead dust if you sand scrape or remove old paint. Lead is toxic and exposure to lead dust particles can cause serious illness including brain damage especially in children. Pregnant women should avoid exposure. If adequate ventilation is not possible, wear a NIOSH approved respirator to avoid inhalation of the particles and wear clothing designed to prevent skin contact. Clean up carefully with a HEPA vacuum and a wet mop. Before starting your project, you can find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or visit their website at [www.epa.gov/lead](http://www.epa.gov/lead).

**DO NOT TAKE INTERNALLY! FIRST AID:** In case of skin contact, wash thoroughly with appropriate cleaning solvent followed by plenty of warm soapy water. For eye contact, flush with plenty of water for 15 minutes, SEEK IMMEDIATE MEDICAL ATTENTION! If affected by inhalation, move immediately to fresh air. If swallowed, DO NOT INDUCE VOMITING, SEEK IMMEDIATE MEDICAL ATTENTION!

### Storage and Disposal

Product should be kept from freezing temperatures or temperatures above 95°F. Refer to your local city or county government for instructions on disposal options.

Florida Paints believes the technical data represented in this technical bulletin to be current and up to date. However, Florida Paints makes no warranties or guarantees either expressed or implied. Florida Paints claims no responsibility from damages incurred from use by either the purchaser or user of the product.

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