



APPLICATION INSTRUCTIONS FOR ULTRAGUARD EPOXY JOINT FILLER

FOR CONCRETE FLOORS & OTHER CONCRETE SURFACES

CASE CONTENTS: Before proceeding, check the case contents to make sure you have the following items:

- 1 -- Pail* of SWEPCO UltraGuard Epoxy Joint Filler Component A -- Resin
- 1 -- Container* of SWEPCO UltraGuard Epoxy Joint Filler Component B -- Activator
- 1 -- Plastic Mixing Attachments for 400-600 rpm power drill
- 1 -- Application Instructions for SWEPCO UltraGuard Epoxy Joint Filler

**Note: Fill levels in containers for UltraGuard Epoxy Joint Filler Components A & B are designed to yield correct mixtures rather than filling the containers. Amount of material supplied will prepare one-gallon (3.785 liters) of UltraGuard Epoxy Joint Filler or enough to fill 308 lineal ft. (93.8 m) of 1/4 x 1/4 inch (0.63 x 0.63 cm) joints or cracks.*

SECTION 1: GENERAL INFORMATION

These application instructions have been prepared as a reference for any person responsible for or involved in the use of SWEPCO UltraGuard Epoxy Joint Filler. Time spent reviewing this guide will help insure a successful installation and maximum service life.

1.1 Technical Support

For additional information or questions concerning application of SWEPCO Products or Systems, please call Southwestern Petroleum Corporation TOLL FREE at 1-800-877-9372 (call 817-332-2336 if outside the USA) between 8 AM and 5 PM CST and ask for the Application Services Department, or write Southwestern Petroleum Corporation, P.O. Box 961005, Fort Worth, Texas 76161-0005 USA. You can also Fax us at (817) 877-4047.

1.2 Temperature/Humidity Considerations

Do not attempt application of SWEPCO UltraGuard Epoxy Joint Filler when temperatures are below 50°F (10°C) or if temperature of the concrete substrate is less than 5°F (3°C) above the dew point. The approximate dew point can be

calculated from the ambient temperature and relative humidity. See the chart at the bottom of this page for making approximate dew point calculations.

1.3 Mixing & Pot Life

SWEPCO UltraGuard Epoxy Joint Filler is a two-part product. It begins the chemical curing process as soon as the two components are mixed and must be applied before its "pot life" expires. Pot life becomes shorter as temperature increases.

UltraGuard Epoxy Joint Filler has a pot life of approximately 1 hour at 75°F (24°C). Pot life can be as short as 20 minutes as temperatures rise above 85°F (29°C).

To lengthen pot life during slow application conditions or high ambient temperatures, place the mixed container on a bed of ice without getting ice or water in the mixed product.

1.4 Tools

There are only a few simple tools required to install UltraGuard Joint Filler. Be sure they are available in sufficient quantity for the number of workers involved before beginning work: Utility Knife, Rubber Gloves and 400-600

APPROXIMATE DEW POINT CALCULATIONS

Relative Humidity, %	Ambient Temperature, °F (°C)						
	50 (10)	60 (16)	70 (21)	80 (27)	90 (32)	100 (38)	110 (43)
90	47 (9)	57 (14)	67 (19)	77 (25)	87 (31)	97 (36)	107 (42)
85	45 (7)	55 (13)	65 (18)	75 (24)	84 (29)	95 (35)	104 (40)
80	44 (7)	54 (12)	63 (17)	73 (23)	82 (28)	93 (34)	102 (39)
75	42 (6)	52 (11)	62 (17)	71 (22)	80 (27)	91 (33)	100 (38)
70	40 (4)	50 (10)	60 (16)	69 (21)	78 (26)	88 (31)	98 (37)
65	38 (3)	48 (9)	57 (14)	67 (19)	76 (24)	86 (30)	95 (35)
60	36 (2)	46 (8)	55 (13)	65 (18)	74 (23)	83 (28)	92 (33)
55	34 (1)	43 (6)	53 (12)	62 (17)	71 (22)	80 (27)	90 (32)
50	31 (-5)	41 (5)	50 (10)	59 (15)	69 (21)	78 (26)	87 (31)

EXAMPLE: At an ambient temperature of 70°F (21°C) and a relative humidity of 65%, the approximate dew point is 57°F (14°C). In these conditions, the temperature of the concrete substrate must be at least 62°F (17°C) before attempting application.

rpm Electric Drill. Joint/crack preparation typically requires compressed air to blow out the crevice and may require other materials for more aggressive cleaning procedures.

1.5 Safety

Carefully read and observe all safety precautions, product warnings and instructions presented in these instructions, on all product container labels and in all Material Safety Data Sheets before commencing any work.

1.6 Product Storage & Shelf Life

Unopened containers of SWEPCO UltraGuard Epoxy Joint Filler have a shelf life of one year provided they are stored in a dry location and protected from temperature extremes. The activator component can crystallize or gel in freezing temperatures; if this occurs, it will reliquify when raised to application temperature. However, protection from freezing both in transit and during storage is recommended.

SECTION 2: SURFACE PREPARATION

Note: Because the workable "pot life" for UltraGuard Epoxy Joint Filler can be as short as 20 minutes or less (depending upon conditions at time of application) after mixing, it is important that all preparation be completed BEFORE mixing the product.

ALL surface contaminants of any kind which might inhibit proper bonding must be removed. This includes dirt, grease, sediment, wax, laitance, chemical residue, chalking, efflorescence, form release agents, curing agents, paint, coatings, sealers or any other foreign substance. Once clean, the surface must be sound and dry.

NEW CONCRETE SURFACES -- New concrete should be allowed to cure a minimum of 7 days prior to application of SWEPCO UltraGuard Epoxy Joint Filler.

TYPICAL CLEANING REQUIREMENTS FOR EXISTING CONCRETE SURFACES -- Clean the joint or crack with compressed air. High pressure water blasting with chemical degreasing concentrates, surface etching and other more aggressive cleaning should be considered if compressed air does not result in a reasonably clean application area.

Joints and cracks must be allowed to dry thoroughly if water blasting, degreasing or etching operations have been performed.

ADDITIONAL PREPARATION OF DEEP JOINTS OR CRACKS -- To avoid wasting UltraGuard Epoxy Joint Filler unnecessarily, backer rod material should be installed before filling large joints or cracks which are deeper than they are wide. Optimum performance and economy will be achieved if the backer rod is positioned so the depth of the joint to be filled is approximately the width of the joint. For example, if the joint is 0.5 inches (1.27cm) wide, position the back rod so the area remaining to be filled is 0.5 inches (1.27 cm) deep.

SECTION 3: MIXING

PROPER MIXING IS ABSOLUTELY ESSENTIAL TO LONG TERM PERFORMANCE OF THIS PRODUCT. If the product is not mixed properly, it will NOT work properly.

Do not mix partial kits. Mix only one gallon (3.79 liters) at a time. Due to the high viscosity of the product manual mixing is NOT recommended. All mixing should be performed with a 400-600 rpm power drill and the mixing attachment provided. Use low speed and keep mixing blade down in the product to avoid entrapping air in the mixture. Start by pre-mixing Component A -- Resin to compensate for any settling which may have occurred. Then empty the entire contents of Component B -- Activator into Component A -- Resin and mix for a minimum of three minutes after a uniform appearance is first obtained. Pay special attention to the bottom and sides of the container to insure complete mixing.

Thinning is not generally recommended. If absolutely necessary, especially at temperatures lower than 60°F (16°C), add 4 to 6 fluid ounces of MEK to the resin and mix thoroughly before adding the activator. Do not exceed 10% MEK by volume and be sure to consult MSDS sheet for MEK before using.

SECTION 4: APPLICATION

UltraGuard Epoxy Joint Filler is best installed by pouring directly into the joint and touching up if necessary with a mason's trowel. A plastic funnel can be helpful.

USE AS PART OF A TOTAL ULTRAGUARD FLOOR RESTORATION -- If UltraGuard Epoxy Joint Filler is being used as part of an UltraGuard Epoxy Primer & Coating system, joints and cracks should be filled after application of the UltraGuard Epoxy Coating. For best performance, UltraGuard Epoxy Joint Filler should be applied as soon as the coating has dried enough to be walked on without damage but no longer than 48 hours after application of the coating. Allow UltraGuard Joint Filler to overlap the coating approximately 0.25 inch (0.64 cm) on either side of the joint or crack.

SECTION 5: CLEAN-UP

Use a 50%/50% mixture of MIBK and butyl acetate or a 50%/50% mixture of xylene and either MEK or MIBK for clean-up. For cleaning hands or other skin surfaces use denatured alcohol, preferably ethanol. Consult MSDS for all cleaning materials before use.

SECTION 6: CURING

Under typical conditions, UltraGuard Epoxy Joint Filler is tack free in 48 hours and completely cured in 7 days.

CAUTION -- Contains Resin -- can cause eye and skin irritation. Can cause severe eye burns. Use in ventilated area. Avoid contact with skin, eyes and clothing. Use with appropriate protective attire and chemical goggles. Avoid breathing mist. Consult MSDS for more information.

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