

FLEXFILL 90 JOINT FILLER

SEMI-RIGID EPOXY JOINT FILLER FOR CONTROL JOINTS OR CONTRACTION JOINTS

PRODUCT DESCRIPTION

Flexfill 90 has been specifically designed for filling sawcut control joints and contraction joints in concrete. Flexfill 90 is a two component, low viscosity liquid which cures to a semi-rigid, hard-rubber-like resiliency which supports joint edges to prevent edge deterioration and concrete spalling. Flexfill 90 joint filler bonds tightly to the sides of concrete joints, prevents contaminant and water penetration, and delivers high wear resistance and durability.

FLEXFILL 90 JOINT FILLER FEATURES

- VOC FREE, 100% SOLIDS
- IDEAL 1:1 MIX RATIO
- FAST 3 HOUR SHAVE TIME
- HIGH RESILIENCY
- BONDS TO MOST CONSTRUCTION MATERIALS
- EASILY COATED WITH COMPATIBLE TOPPING
- THIXOTROPIC JOINT FILLER CONSISTENCY – DESIGNED TO REDUCE JOINT FILLER “SINKERS” SAVING TIME AND MONEY

PRODUCT DESCRIPTION AND CHARACTERISTICS

TWO PART EPOXY, THERMOSETTING RESIN

- MIX RATIO BY VOLUME:..... 1:1
- COLOR:..... light grey
- WORKLIFE, AFTER MIXING RESIN & HARDENER: 8-10 min. @ 72°F
- APPLICATION THICKNESS:..... 1/8” or greater
- SHAVE TIME..... 3 hours @ 72 °F
- CURING TIME:..... 24 hours @ 72°F
- TENSILE STRENGTH (ASTM D-638): 540 psi
- % TENSILE ELONGATION: 40%
- HARDNESS (SHORE A) (ASTM D-2240): 92A
- MIXED VISCOSITY @ 77°F (ASTM D-2196):..... 8,000 cPs

PACKAGING

K-560-20 (2 GALLON) PREMEASURED KIT = 439 in³
K-560-100 (10 GALLON) PREMEASURED KIT= 2217 in³
BULK 55 GALLON DRUMS AVAILABLE

WHAT TYPE OF JOINT ARE YOU FILLING?

TYPE 1		TYPE 2	
USE FLEXFILL 90 HERE		DO <u>NOT</u> USE FLEXFILL 90 HERE	
Names*:	Control joint Contraction joint Non-working joint	Names*:	Expansion joint Isolation joint Working joint
Characteristics:	No movement or negligible movement Sawcut	Characteristics:	Significant movement Formed

* Name distinctions are based on American Concrete Institute, ACI 504R-90

APPLICATION INSTRUCTIONS

WHEN TO INSTALL FLEXFILL 90: Flexfill 90 should not be installed on "green" concrete. A minimum 30-day concrete cure is required. 90-120 days is ideal. The ideal time to install is when the area is at its long term, stable temperature.

JOINT OR CRACK APPLICATION: Any loose concrete, previous joint compound or other materials must be removed to leave a clean, sound joint. All dirt, oil, sealers or chemical residue must be removed. To achieve optimum performance the joint should be sawcut, and/or chipped to leave a clean, dry surface for bonding. Prepared joint depth should be at least (minimum) two (2) times the width. Wire brush joint sides to remove laitance. Bond breaker must be used. Use of a 1/4" layer of 30-60 mesh dry silica sand in bottom of joint is recommended. The bond breaker is designed to prevent three-sided adhesion of the epoxy. Adhesion to the joint walls is the only adhesion desired. **DO NOT USE A BACKER ROD.** A backer rod does not produce a stable, long term load transfer.

APPLICATION: Do not rapidly change the temperature of the air/concrete before installing Flexfill 90. Keep the temperature constant, same as long term temperature. Floor temperature must be between 60 - 90 °F (15.5 - 32.2 °C) during application for complete cure. Temperatures below 50 °F (10 °C) will inhibit the cure resulting in a sticky surface. The liquid material should be stored at 60-90 °F prior to installation.

MIXING: Mix the Resin (Part A) and the Hardener (Part B) for 2-3 minutes with a slow speed (850 rpm or less) drill and Jiffy Mixer (mixing paddle). Pour the material into the joint. If a flush joint is desired slightly overfill the joint and let cure, then use a floor scraper or knife-edge to cut the material flush with the concrete. If you need less than a full kit, do not "eyeball" the mixture. Accurately measure the resin and hardener following the mixing ratios under "PRODUCT DESCRIPTION AND CHARACTERISTICS."

Flexfill 90 has a work life of 8-10 minutes at 72 °F (22 °C), and can be applied as thickly as needed in one coat. If it is necessary to bond Flexfill 90 to itself, abrade the old material before pouring new material.

CLEAN-UP: Flexfill 90, before it has fully cured, may be removed from tools with Copps Enviro-Kleen solvent or isopropyl alcohol.

SAFETY: Flexfill 90 is an epoxy resin system. Please refer to Material Safety Data Sheets before using this product. **DO NOT WELD ON, BURN OR TORCH ON OR NEAR ANY EPOXY MATERIAL.**

EXPLANATION OF PRODUCT CHARACTERISTICS AND PHYSICAL PROPERTIES

Important product characteristics include tensile strength, percentage tensile elongation and Shore A hardness.

- These characteristics relate to Flexfill 90 after it has completely cured.
- In simple terms:
 - Tensile strength** relates to the capacity of this material to hold together when stretched.
 - Percentage tensile elongation** is the length the material can be stretched before failure.
 - Shore A hardness** relates to a standard for "hardness – softness" so that different materials may be measured against the same reference point

Flexfill 90 has been designed to function as a joint filler. It must stretch or give to allow for expansion or contraction within the concrete slab. At the same time it must deliver adequate support to joint shoulders receiving the force of hard wheel traffic carrying heavy loads. It must bond to joint sides to provide a seal to prevent contaminant entry and its surface texture must deliver sufficient wear capacity. Extensive tests and use of Flexfill 90 demonstrate these capacities.

WARRANTY AND DISCLAIMER

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