



DYNAFLEX 502



100% solids, moisture insensitive, semi-rigid epoxy/polyurethane copolymer concrete floor joint filler.

HOW IT WORKS

DYNAFLEX 502 is a tough, semi-rigid, two component, 100% solids, epoxy/polyurethane copolymer, industrial concrete floor joint filler designed to protect interior joint edge shoulders from edge fractures (spalls) resulting from forklift or cart related direct point impact loading.

APPLICATIONS

- ◆ Use to protect saw cut crack control joint edge shoulders from forklift damage on all interior warehouse, distribution center, convention center, sporting arena, manufacturing, grocery and retail exposed concrete floors or wherever a Shore A hardness joint filler is required.
- ◆ Particularly well-suited for use in high traffic applications where maximum impact resistance and joint edge shoulder protection is required.
- ◆ Can also be used to fill keyed or doweled construction joints and to repair cracks or small joint edge fractures.

ADVANTAGES

- ◆ Specifically formulated to support heavy loads without deflection, protecting joint edge shoulders from potential edge fractures (spalls).
- ◆ Supports and absorbs high impact wheel traffic from forklifts and carts, preventing joint edge stress by reinforcing joint side walls.
- ◆ Easy to use, factory proportioned mixing ratio.
- ◆ Develops strength quickly by curing from the inside out.
- ◆ No heating is necessary when shaved between 12 - 24 hours after installation.
- ◆ Improved color stability.
- ◆ Overfilled joint filler leaves little to no staining on substrate.
- ◆ Compliant with current USDA regulations.
- ◆ Prevents joint contamination and facilitates floor clean-up to a sanitary condition.
- ◆ Offers excellent chemical resistance to most commonly used industrial chemicals.
- ◆ Eliminates razor blade surface hopping and related joint filler disfiguration during shaving operation common to most competing products.
- ◆ Bonds well to damp concrete surfaces.
- ◆ Long pot life reduces waste.

- ◆ Fast curing — can generally be shaved within 12 hours following installation.
- ◆ Available in special colors.
- ◆ Green Engineered™ – better for health and the environment.
- ◆ Meets all federal and state VOC requirements.

▲ PRECAUTIONS ▲

- ◆ Do not use in joints subject to movement, such as expansion joints, dynamic control joints or isolation joints.
- ◆ New industrial concrete floor joints will increase in width due to concrete shrinkage. Premature installation of DYNAFLEX 502 generally results in either adhesive or cohesive joint filler separation within the joint. Best results are obtained if concrete is allowed to cure a minimum of 90 days prior to installation of joint filler.
- ◆ The use of closed or open cell compressible foam backer rod is not recommended.
- ◆ Joint filler installations subject to wide temperature variations can result in thermal induced joint filler separation within the joint.
- ◆ Do not apply to joints wet with standing water.
- ◆ Do not use in exterior applications, on inclined or sloped joints or in joints where anticipated movement will exceed 15% of the joint width.
- ◆ Cure time is affected by the temperature of the substrate; cooler temperatures will increase cure time and warmer temperatures will reduce cure time.
- ◆ DYNAFLEX 502 may discolor when exposed to direct sunlight.

USE INSTRUCTIONS

- ◆ Request current product literature, labels and material safety data sheets from manufacturer and read thoroughly before product use.
- ◆ Site environmental conditions, substrate conditions and construction have a major effect on product selection, application methods, procedures and rates, appearance and performance. Product literature provides general information applicable to some conditions. However, an adequate site test application by the purchaser or installer in advance of field scale use is mandatory (irrespective of any other verbal or written representations) to verify that product

DYNAFLEX 502

Floor Joint Fillers / Stain Protectant



chemical solutions to concrete problems

and quantities purchased can be satisfactorily applied and will achieve desired appearance and performance under intended use conditions.

- ◆ Concrete should be cured a minimum of 90 days prior to installation to reduce the likelihood of slab shrinkage and joint filler adhesion failure.
- ◆ Stabilized interior substrate temperature conditions provide the ideal installation environment and reduce the possibility of thermal induced slab expansion and contraction. A minimum substrate temperature of 50° F (10° C) is required for installation.
- ◆ Joint surfaces should be cleaned of all laitance, debris, curing compound residue and any other material that might interfere with joint filler adhesion. The recommended cleaning procedure consists of vacuum dry cutting all joints to be filled with a dustless walk behind saw equipped with a diamond blade slightly wider than the width of the joint.
- ◆ Primer is not typically required, but can be used on excessively porous or weak concrete substrates to maximize joint filler adhesion.
- ◆ Pour entire contents of Component B into entire contents of Component A and mix for three minutes using a variable speed mechanical drill and a paddle mixer. Transfer combined, mixed components into a third container and mix for an additional two minutes.
- ◆ Install product into joints using a bulk loading caulk gun. Proper tip size is necessary to prevent air voids.
- ◆ Fill joints to within 0.5 inches (1.3 cm) of joint top. Within 15 minutes, overfill joints to a slightly crowned excess.
- ◆ Any low spots due to seepage should be refilled.
- ◆ Joints should be filled full depth or a minimum of 1.5 inches (3.8 cm). Joints cut deeper than 1.5 inches (3.8 cm) can be filled with sand to a minimum depth of 1.5 inches (3.8 cm). The use of backer rod is not recommended.
- ◆ Allow DYNAFLEX 502 to cure for a minimum of 12 hours.
- ◆ To remove excess joint filler after the product has fully cured, shave off excess flush with the floor surface using a razor blade equipped floor scraper. Product can also be sanded smooth. Best results are achieved when product is shaved between 12-24 hours after installation. After 24 hours, it may be necessary to heat the joint filler material for easier shaving.

TECHNICAL DATA

| | |
|--|----------------------------------|
| Density..... | 12.9 lbs/gal (1600 g/l) |
| Solids Content | 100% |
| VOC..... | 120 g/l |
| Pot Life | Approx. 1.5 hrs. @ 75° F (24° C) |
| Shore "A" Hardness..... | 85 ± 10 |
| Shore "D" Hardness..... | 55 ± 5 |
| Tensile Strength, ASTM D-638 | Min. 400 psi |
| Elongation..... | Max. 25% |
| Initial Cure | 6-8 hrs. @ 70° F (21° C) |
| Shrinkage | None |
| Water Absorption (72 Hours, ASTM D-2240) | <0.5% |

Updated 05/04/10. This version supersedes all previous versions.

VOLUME CALCULATION CHARTS

Lineal Feet Per Gallon

Width

| Inches | .125 | .250 | .375 | .500 | .675 | .750 |
|--------|-------|-------|-------|------|------|------|
| 0.50 | 308.0 | 154.0 | 102.7 | 77.0 | 57.0 | 51.3 |
| 0.75 | 205.4 | 102.7 | 68.4 | 51.3 | 38.0 | 34.2 |
| 1.00 | 154.0 | 77.0 | 51.3 | 38.5 | 28.5 | 25.7 |
| 1.25 | 123.2 | 61.6 | 41.1 | 30.8 | 22.8 | 20.5 |
| 1.50 | 102.6 | 51.3 | 34.2 | 25.7 | 19.0 | 17.1 |
| 1.75 | 88.0 | 44.0 | 29.3 | 22.0 | 16.3 | 14.7 |
| 2.00 | 77.0 | 38.5 | 25.7 | 19.3 | 14.3 | 12.8 |
| 2.25 | 68.4 | 34.2 | 22.8 | 17.2 | 12.7 | 11.4 |
| 2.50 | 61.6 | 30.8 | 20.5 | 15.4 | 11.4 | 10.3 |
| 2.75 | 60.0 | 30.0 | 18.7 | 14.0 | 10.4 | 9.3 |
| 3.00 | 51.3 | 25.7 | 17.1 | 12.9 | 9.5 | 8.5 |

Lineal Meters Per Liter

Width

| MM | 2.5 | 5.0 | 7.5 | 10.0 | 12.5 | 15.0 | 17.5 | 20.0 |
|------|------|------|-----|------|------|------|------|------|
| 15.0 | 26.4 | 13.2 | 8.8 | 6.6 | 5.3 | 4.4 | 3.8 | 3.3 |
| 20.0 | 19.8 | 9.9 | 6.6 | 5.0 | 4.0 | 3.3 | 2.8 | 2.5 |
| 25.0 | 15.8 | 7.9 | 5.3 | 4.0 | 3.2 | 2.6 | 2.3 | 2.0 |
| 30.0 | 13.2 | 6.6 | 4.4 | 3.3 | 2.6 | 2.2 | 1.9 | 1.7 |
| 35.0 | 11.3 | 5.7 | 3.8 | 2.8 | 2.3 | 1.9 | 1.6 | 1.4 |
| 40.0 | 9.9 | 5.0 | 3.3 | 2.5 | 2.0 | 1.7 | 1.4 | 1.3 |
| 45.0 | 8.8 | 4.4 | 2.9 | 2.2 | 1.8 | 1.5 | 1.3 | 1.1 |
| 50.0 | 7.9 | 4.0 | 2.6 | 2.0 | 1.6 | 1.3 | 1.1 | 1.0 |
| 55.0 | 7.2 | 3.6 | 2.4 | 1.8 | 1.4 | 1.2 | 1.0 | 0.9 |
| 60.0 | 6.6 | 3.3 | 2.2 | 1.7 | 1.3 | 1.1 | 0.9 | 0.8 |
| 65.0 | 6.1 | 3.0 | 2.0 | 1.5 | 1.2 | 1.0 | 0.9 | 0.8 |
| 70.0 | 5.7 | 2.9 | 1.9 | 1.4 | 1.1 | 0.9 | 0.8 | 0.7 |

PACKAGING

DYNAFLEX 502 is packaged in 1.8 gal (6.8 l) kits.

SHELF LIFE

Shelf life is one year. Use before the "USE BY" date stated on product packaging.

HANDLING/STORAGE

Store in a dry location within a temperature range between 65° - 85° F (18° - 29° C).

AVAILABILITY & TECHNICAL SERVICES

In addition to corporate offices in Omaha, Nebraska, NOX-CRETE Products Group maintains regional offices and distribution centers in principal markets throughout the world. For source or technical information, phone (800) 669-2738 or (402) 341-1976.

LIMITED WARRANTY

NOTICE-READ CAREFULLY

CONDITIONS OF SALE

NOX-CRETE offers this product for sale subject to, and Buyer and all users are deemed to have accepted, the following conditions of sale and limited warranty which may only be varied by written agreement of a duly authorized corporate officer of NOX-CRETE. No other representative of or for NOX-CRETE is authorized to grant any warranty or to waive limitation of liability set forth below.

WARRANTY LIMITATION

NOX-CRETE warrants this product to be free of manufacturing defects. If the product when purchased was defective and was within use period indicated on container or carton, when used, NOX-CRETE will replace the defective product with new product without charge to the purchaser.

NOX-CRETE makes NO OTHER WARRANTY, either express or implied, concerning this product. There is NO WARRANTY OF MERCHANTABILITY. In no case shall NOX-CRETE be liable for special, indirect or consequential damages resulting from the use or handling of the product and no claim of any kind shall be greater in amount than the purchase price of the product in respect of which damages are claimed.

INHERENT RISKS

NOX-CRETE MAKES NO WARRANTY WITH RESPECT TO THE PERFORMANCE OF THE PRODUCT AFTER IT IS APPLIED BY THE PURCHASER, AND PURCHASER ASSUMES ALL RISKS ASSOCIATED WITH THE USE OR APPLICATION OF THE PRODUCT.

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