

FLEXIBLE EPOXY JOINT SYSTEM

1. PRODUCT NAME

Epoxy # 200 Joint Filler

2. MANUFACTURER

The Chargar Corporation

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3. PRODUCT DESCRIPTION

Chargar # 200 Flexible Epoxy Joint filler is a 2 part 100% solids epoxy resin compound, that when fully cured is semi rigid with a shore A hardness of 100+- 10.

Basic Uses: #200 Epoxy is designed for use in saw cut joints in industrial concrete floors subjected to vehicle traffic such as forklifts and heavy equipment. The joint edges are protected from spalling by the the hard,abrasion-resistant surface of # 200 Epoxy, and also for repairing existing joints which have chipped edges.

Advantages: Epoxy compounds are very durable and offer tremendous resistance to wear and tear.

200 Epoxy remains flexible even with aging.

200 Epoxy is flexible but also rigid enough to take heavy loads.

#200 Epoxy has tremendous adhesive strength

LIMITATIONS: # 200 Epoxy is not designed for movement such as expansion joints.

* Joints subjected to harsh chemicals

* Joints in concrete that is less than 30 days old.

Colors: Available in clear or concrete gray.

Packaging: 1 gallon units

2 gallon units

10 gallon units

Updated on 4/1/2003

4. TECHNICAL DATA

Applicable Standards:

Standardized specifications for semi-rigid industrial floor joint fillers have not been developed. # 200 Epoxy meets the basic criteria in accordance with the following technical publication."Guide to Concrete Floor and Slab Construction", A.C.I. Report 302.IR-80

5. INSTALLATION

Joint Design: Joints should be 1/8" to 1/4" (3 to 6mm) wide with a minimum depth of 1-1/2". Backer rod should not be used. Apply 1/8" to 1/4" layer of sand at the bottom of the joint to prevent seepage.

SURFACE PREPARATION: Joint should be free of saw cut laitance,dirt or debris, frost, curing or cleaning compounds. Scrape the sawcut clean and vacuum.

APPLICATION: Mix units as supplied, do not change the mix ratio or failure will occur. Mix with variable speed drill at a low rate of speed. As soon as the Epoxy is mixed place into the joint. Application temperature should above 50F,warmer temperatures decreases pot life and set time. Apply # 200 Epoxy to within 1/2" of the floor surface and allow to settle, within 15-30 minutes apply a send layer.

COVERAGE:

1/8" x 1-1/2" 105 lineal ft/gal

3/16" x 1-1/2" 70 lineal ft/gal

1/4' x 1-1/2" 54 lineal ft/gal

PROPERTIES:

Hardness,Shore A >100

Pot life @ 75F 15 min

Shore D Hardness ASTMD-2240

7 days 55

Initial cure @ 75F 12 hrs

PROPERTIES:

Final Cure @ 70F 24-72 hrs
Solids content 100%
Shrinkage 0
Mix ratio 1:1
Tensile Strength (ASTM D-638) 690 psi 7days
Tensile elongation (ASTM D-638) 55%
Adhesion to concrete (ASTM C-321) 175-250 psi
Compressive strength (ASTM D-695) 3000 psi
@72 hours
Chemical Resistance 72Hrs. at 75F
CaCl-2(10%)-----Excellent
Caustic (10%)-----Excellent
Hydrochloric Acid (Muriatic Acid) Excellent

where the # 200 epoxy meets the concrete or within the # 200 Epoxy rake out void, clean with vacuum or compressed air and refill with # 200 Epoxy. As with any concrete joint filler, repairs will likely be needed if the concrete shrinks, since this is a natural development and not a sealant failure.

FIELD MODIFICATIONS:

A higher hardness may be desirable if the 200 Epoxy is subjected to steel wheels. Silica sand may be added to # 200 Epoxy at the ratio of 1:1. Field modifications will increase hardness by 10 points.

PRECAUTIONS:

200 Epoxy contains epoxy resins which must be used with care, in well ventilated area and impervious gloves should be worn.

6. WARRANTY:

The Chargar Corporation warrants its products to be free of defects. Under this warranty, we will provide at no charge, replacement materials for, or refund the purchase price of, any product proven to be defective when installed in accordance with our published recommendations and in applications considered by us as suitable for this product. This warranty is in lieu of any and all other warranties expressed or implied, and in no case will The Chargar be liable for incidental or consequential damages.

7. MAINTENANCE

Once the # 200 Epoxy cures, it is basically maintenance free. If voids develop

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