



The Chemical Company

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Technical Data Guide

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Joint
Sealants

MasterSeal® CR 190

Two-part flexible epoxy joint filler

FORMERLY EPOLITH®-P

PACKAGING

- 1.5 gallon (5.67 L) units
(0.75 gallon [2.84 L] Part A and
0.75 gallon [2.84L] Part B)
- 5 gallon (18.92 L) Part A
- 5 gallon (18.92 L) Part B

COLOR

Gray

YIELD

See page 2 for chart

STORAGE

Store in unopened containers in a clean, dry area out of direct sunlight. Elevated temperatures will shorten shelf life. Protect from freezing.

SHELF LIFE

2 years when properly stored

MIXED VOC CONTENT

3.0 g/L

DESCRIPTION

MasterSeal CR 190 is a two-component self-leveling 100% solids epoxy control joint filler designed to protect joints in industrial concrete floors subjected to hard wheels and heavy loads. MasterSeal CR 190 provides excellent resistance to spalling, abrasion, chemical attack, and corrosion. It is also ideal for filling random cracks.

PRODUCT HIGHLIGHTS

- Chemical resistant, making it suitable for many industrial environments
- Stiff yet resilient to help absorb floor vibration and wheel impact; reinforces joint edges to prevent spalling in heavy-duty areas
- 100% solids to fill joints completely and reinforces side walls without shrinkage

APPLICATIONS

- Horizontal
- Interior or exterior
- Concrete
- Control joints in concrete
- Retail, warehouse and industrial floors
- Random crack filling

HOW TO APPLY

INSTALLATION

JOINT DESIGN

1. Install MasterSeal CR 190 at full joint depth to allow for proper load transfer. Do not use sand or backing materials to reduce volume. Clean, dry silica sand may be used to seal cracks in the base of the joint if approved by the specifier; however, BASF recommends that the minimum application be $\frac{2}{3}$ the depth of the joint or 1", whichever is greater.
2. Do not install over backer rod in sawcut control joints. Compressible rod may be used at depths greater than 1½" in formed construction joints.

SURFACE PREPARATION

1. Concrete must be fully cured (28 days). Following ACI 302 recommendation, apply joint fillers as late as possible after construction (ideally 90–120 days to minimize additional slab shrinkage).
2. Joint surfaces must be sound, dry, clean, free of dirt, moisture, loose particles, oil, grease, asphalt, tar, paint, wax, rust, waterproofing and curing or parting compounds, membranes, and other foreign matter.
3. Clean concrete where necessary by grinding, sandblasting or wire brushing. Expose a sound surface free of contamination and laitance.

Technical Data

Composition

MasterSeal CR 190 is a two-component pourable epoxy sealant.

Compliances

- USDA compliant for use in meat and poultry areas

Typical Properties

PROPERTY	VALUE
Mixing ratio , by volume	1 to 1
Pot life , minutes at 75°F (24°C)	40 – 55
Cure time , hrs.	
Foot traffic	4
Vehicular traffic	24
Application temperatures , °F (°C)	≥ 55 (13)

Test Data

PROPERTY	RESULTS	TEST METHOD
Tensile Strength , psi (MPa)	655 (4.5)	ASTM D 638
Elongation , %	75	ASTM D 638
Hardness		
Shore A	85	
Shore D	34	

Test results are typical values obtained under laboratory conditions. Reasonable variations can be expected.

Yield

LINEAR FEET PER GALLON (METERS PER LITER)*

JOINT WIDTH, IN (MM)	JOINT DEPTH 1" (25 MM)	JOINT DEPTH 1.5" (38 MM)	JOINT DEPTH 2" (51 MM)	JOINT DEPTH 2.5" (63 MM)
3/16 (4.8)	102 (7.0)	68 (4.7)	51 (3.5)	41 (2.8)
1/4 (6.4)	77 (5.3)	51 (5.5)	38 (2.6)	30 (2.1)
5/8 (9.5)	51 (4.7)	34 (2.3)	25 (1.7)	20 (1.4)

*One gallon yields 321 in³ (0.001 m³/L).

MIXING

1. MasterSeal CR 190 is a two-component system and Parts A and B must be thoroughly mixed before use. Following joint preparation, combine and mix Parts A and B. In order to maintain a correct mixing ratio, the entire contents of Part B must be mixed thoroughly with the entire contents of Part A. Use a separate, clean container of appropriate size.
2. Do not install over backer rod in sawcut control joints. Compressible rod may be used at depths greater than 1½" in formed construction joints.
3. During mixing, make sure that the paddle reaches the bottom and scrapes the side of the container several times. Also, scrape the paddle itself to ensure thorough mixing. To avoid whipping air into the material, keep the paddle blade below the surface of the MasterSeal CR 190 material.
4. If mixing in bulk, refer to pump manufacturer's recommendation.

APPLICATION

Pour MasterSeal CR 190 from a spouted can or apply by a professional bulk-loading caulking gun. Trim excess material within 24 hours.

CLEAN UP

Wash tools with MasterSeal 990 or xylene immediately after use. Observe all precautions when handling these solvents. Cured material must be removed mechanically.

FOR BEST PERFORMANCE

- Do not use MasterSeal CR 190 in expansion joints.
- Not intended for constant immersion.
- Not intended for areas subject to prolonged or strong chemical attack.
- Not designed for exterior use.
- Cure time must be extended in cool conditions.
- Mechanically roughen MasterSeal CR 190 before painting.
- MasterSeal CR 190 may yellow in the presence of unvented artificial heat or high intensity lighting. This does not affect sealant performance.
- Concrete will shrink at varying rates over an extended period of time—up to a year or more. Slabs may also settle. The sooner MasterSeal CR 190 is installed after concrete placement, the greater the likelihood of adhesion loss or splitting from shrinkage or settlement. To repair, simply refill with additional MasterSeal CR 190. Protect from traffic until cured.
- Proper application is the responsibility of the user. Field visits by BASF personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

HEALTH, SAFETY AND ENVIRONMENTAL

Read, understand and follow all Safety Data Sheets and product label information for this product prior to use. The SDS can be obtained by visiting www.master-builders-solutions.basf.us, e-mailing your request to basfbscst@basf.com or calling 1(800)433-9517. Use only as directed.

**For medical emergencies only,
call ChemTrec® 1(800)424-9300.**

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