

# ADEKA ULTRA SEAL MC-2005M OCM, Inc.

Sales Information: (847) 955-9700  
 Technical Information: (800) 999-3959  
 Contact Local Representative:



## GENERAL DESCRIPTION

MC-2005M is a chemically modified natural rubber product. This patented process chemically bonds a hydrophilic agent to the rubber. This permits the seal to undergo controlled expansion when exposed to moisture. This expansion capability provides a "double locking" water-stop. One from rubber's natural resilience and one from expansion.

Expansion occurs in three dimensions: width, height, and length. MC-2005M has a unique stainless steel wire mesh embedded within the material. The wire mesh eliminates unnecessary expansion in the length and width dimensions. When fastened to concrete, the wire mesh prevents "winding" action and directs the expansion.

MC-2005M has excellent durability and resistance to chemical contaminants. It can perform in a wide range of solutions such as sea water or cement water. The material does not contain any toxic substance or heavy metals and is environmentally safe.

## BASIC USE

Used in general below grade concrete joint work where water intrusion must be prevented. MC-2005M is designed to replace conventional waterstop in many applications.

**NOTE: MC-2005M must be placed between two rows of rebar. The required concrete coverage varies from 4.0" ~ 5.0" depending on concrete strength. For example, if concrete psi is 4260 or greater the required concrete coverage is 4.0". If the concrete psi is 2550 or less, the required coverage is 5.0".**

For complete coverage information see MC Coverage Data Sheet or call 800.999.3959.

**MINIMUM WALL HEIGHT IS 6.5 FEET**

## PRODUCT DESCRIPTION:

**SIZE:** 20mm X 5mm - 0.78" X 0.20"

**PACKAGING INFORMATION:** 330 feet/case: 35 lbs/case

Hardness A30 (JIS K 6253) (ASTM D2240)

Tensile Strength (MPa) 0.9 (JIS K 6251) (ASTM D412)

Elongation (%) 560 % (JIS K 6251) (ASTM D412)

Volume % Change : 120 % (In House)

Vulcanization No

Specific Gravity 1.18 (JIS K 6350) (ASTM D792)

(Tested by press sheet of MC compound)

**\* Property measurements are representative and are not considered as standard values.**

## INSTALLATION

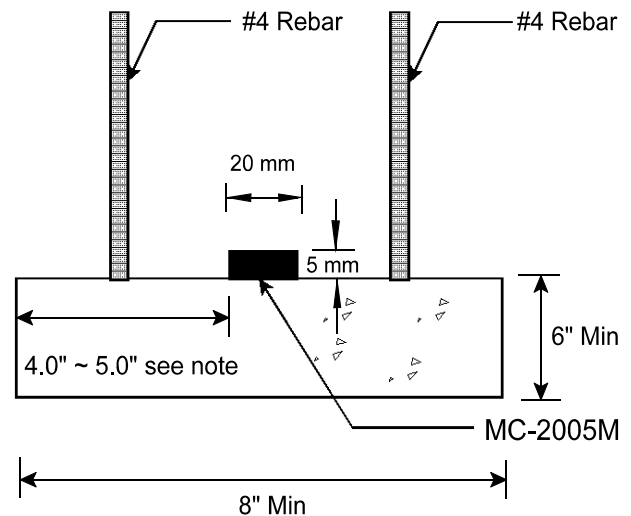
**ALL METHODS OF INSTALLATION REQUIRE A MINIMUM OF 4.0" ~ 5.0" SEE NOTE**

**METHOD 1:** (Attaching waterstop to smooth concrete):

1. Surface of the concrete must be clean, dry and free from any loose debris.
2. Paint both concrete and MC-2005M with appropriate adhesive (3M-2141, Bostik 1142, Scotch Grip 1357 or equal). Allow adhesive to become tacky (approximately 15 minutes) - firmly press MC-2005M into adhesive.
3. Place concrete without displacing or disturbing the position of the waterstop.

**METHOD 2:** (Attaching waterstop to rough concrete)

1. Surface of the concrete must be clean and free from any loose debris or standing water.
2. Apply small bead of Adeka Ultra Seal P-201. Use enough P-201 to fill any void between MC-2005M and the concrete surface)
3. Firmly press MC-2005M into the P-201 while it is still in the paste state. Place a screw every 10" ~ 12" (approximately).
4. Use a wet tool or gloved finger to remove any excess P-201.
3. Place concrete without displacing or disturbing the position of the waterstop.



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Call (800) 999-3959 for more information.

## General Installation Procedures

Prevent water penetration in concrete joints and between structural elements.

For use in non-moving joints only.

Fill all voids and/or rough areas with Adeka Ultra Seal P-201 before placing MC-2005M.

There are several methods to attach MC-2005M to concrete:

1. Adeka Ultra Seal P-201

Or if concrete is smooth, clean and dry:

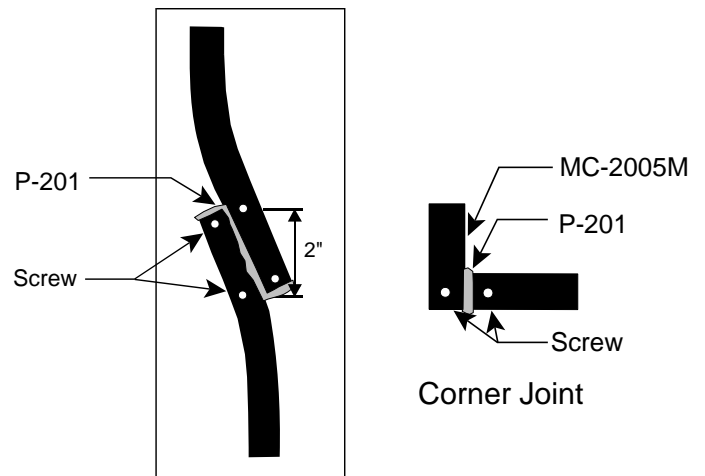
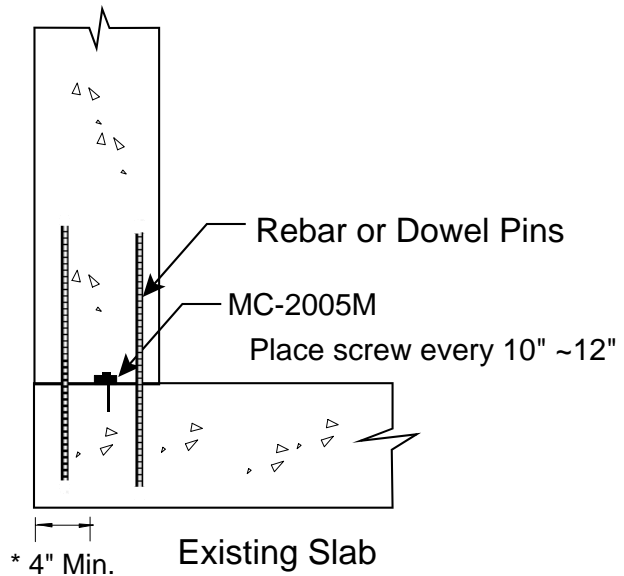
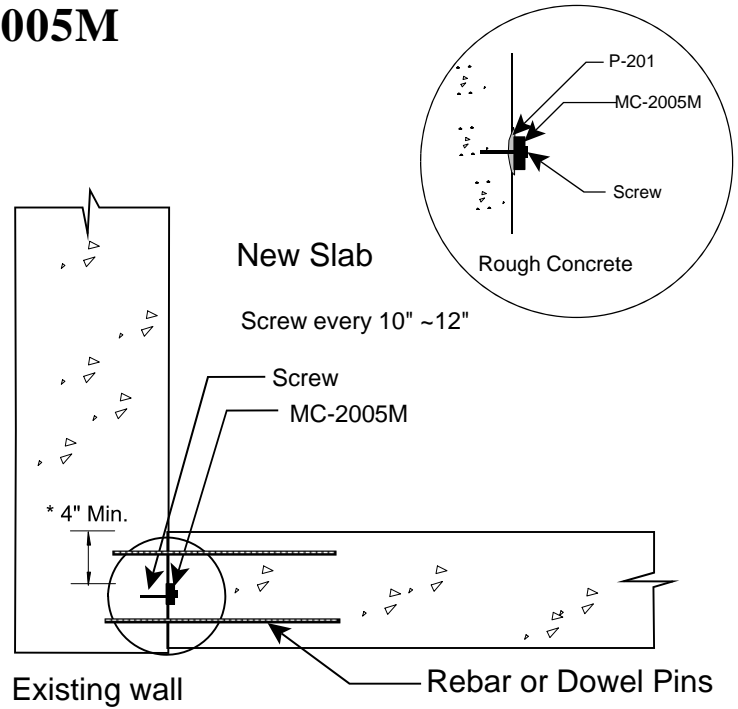
Fast setting adhesives - for example:

2. 3M-2141 rubber adhesive
3. Bostik ADH 1142M
4. Hand nailing (after P-201 or glue)
5. Screws (after P-201 or glue)

Conditions may warrant the use of a combination of methods.

Keep MC-2005M taut during attaching process. Do not allow any gap between the concrete and the MC-2005M.

**\* IMPORTANT: Concrete coverage varies from 4.0"~5.0". See note on front page. Call 800.999.3959 or visit [www.adeka.com](http://www.adeka.com) for coverage chart or additional information.**



Place a screw at the end of each strip  
**Side by Side Lap Procedure**

Not to Scale.