



# Control-Joint System

## PRODUCT DESCRIPTION:

The Mar-flex Control-Joint is a "V" shaped reusable plastic extrusion used to eliminate random shrinkage cracks.

## PURPOSE:

By following the ACI Manual of practice, 322R-16, the weakened areas created by the Mar-flex Control-Joint limit shrinkage cracking to pre-determined non-critical areas of basement walls.

To ensure further protection, Mar-flex recommends the use of the Mar-flex Waterstop Filler and Waterstop Fabric Reinforcement to be applied to the exterior of each Control-Joint.

The Waterstop Filler will allow for expansion and contraction of the Control-Joint while maintaining a watertight adhesion. The Waterstop Fabric will provide additional reinforcement to protect against backfill damage and soil compaction.

## ADVANTAGES:

- Reusable and economical
- Pre-punched for easy use with different types of forms
- Easy to install - attaches to the edge of any concrete forming system
- Isolates shrinkage cracking to control "Random Shrinkage Cracks"

## SPECIFICATIONS:

### Sealant

ASTM D-4586 Type I, ASTM D-1668, Fed. Spec. HH-C466b

### Fiberglass Fabric

ASTM D-3409

## SIZE/PACKAGING:

### Control Joint Extrusions

#### CJS-750 Series:

3/4" x 4' x 2" and 3/4" x 5' x 2"

- Fits 8' thick walls
- 25/Box
- Includes 13 connectors

#### CJS-1250 Series:

1-1/4" x 4' x 2" and 1-1/4" x 5' x 2"

- Fits 10' and 12' thick walls
- 25/Box
- Includes 13 connectors

Note: Based on the height of the walls follow the following configurations:

- 8' wall - two 4' pieces
- 9' wall - one 4' and one 5' piece
- 10' wall - two 5' pieces

### Waterstop Filler

1-Qt (0.9 L) Cartridge - 12/Box  
5-Gal (19 L) Bucket

### Waterstop Fabric Reinforcement

6' x 150' Rolls - 12/Box

## Control Joint Extrusions

The Control-Joints are reusable and their life expectancy will vary depending on use. Usage per job will vary depending on number of corners, windows, doors, box outs, etc.

## Waterstop Elastomeric Sealant and Waterstop Fabric:

Usage for these products will vary and are based upon the assumption that there would be 8 - 10 8' Control-Joints per foundation that need to be sealed. If this is the case the following usage would be true:

Cartridges: Appr. 3/foundation  
Bucket: Appr. 1/4/foundation

## Waterstop Fabric Reinforcement

App. 18, 8' Control-Joints

## PREP/APPLICATION:

### Control Joints -

The Control-Joints have pre-drilled holes to fit any panel or pin size. Based on an 8" thick residential concrete basement wall, vertical control-joints should be located 8' to 10' from each corner and no greater than 20' apart. They should be located next to windows, doors, box outs and drops in wall heights. Note: For any additional wall thickness, use the following formula: 30 times the wall thickness for control-joint spacing. (i.e. 25' for 10" wall and 30' for 12" wall)

Once the Control-Joints are placed, reinforcing bars (4 ea. #4 Rebar) should cross the joints and extend a minimum of 4' each side. This will keep the Control-Joint from opening in a vertical line, which maintains aggregate interlock in the crack and structural integrity of the wall. When forms are pulled the Control-Joints can be placed back on the truck for reuse.

Once control joints are removed, wire-brush the exterior surface area of the Control-Joint. This will rid the surface of dirt, dust, form oil, grease or any other foreign material.

With a conventional caulk gun or trowel, apply the Waterstop Filler into the entire length of the exterior of the Control-Joint. Fill joint until material is flush with the surface of the wall and then feather out onto both sides 2" (51 mm). Immediately dry-tool the area with light pressure. Note: For easier application, if the temperature is below 40°F store material in a warm environment until ready to use.

Press the Fabric into the Waterstop Filler before curing occurs, being sure to apply to the entire length of the Control-Joint.

## CLEAN UP:

### Waterstop Filler -

Uncured material can be removed with a dry towel or with mineral spirits. Cured material is very difficult to remove without altering or damaging the surface to which it

has been adhered. If necessary, material can be removed with a sharp blade.

## Waterstop Fabric

Dispose of all material in an environmentally friendly way.

## PRODUCT HANDLING/STORAGE: Control Joints & Waterstop Fabric

No special requirements

## Waterstop Filler -

- Keep container covered when not in use.
- Do not allow to freeze.
- Do not thin.
- Dispose of all products in an environmentally safe manner.

## WARNING/DANGER:

- Use with adequate ventilation.
- Do not use near open flame.
- Avoid breathing solvent fumes and prolonged contact with skin.
- Do not take internally. If swallowed, do not induce vomiting. Call a physician immediately.
- KEEP OUT OF REACH OF CHILDREN.
- INDUSTRIAL USE ONLY

## PRODUCT ONLY WARRANTY:

Mar-flex warrants the products to be of good quality and manufactured to meet published physical properties and quality control standards.

Except as specifically provided herein, Mar-flex makes no warranty, express, implied or oral including but not limited to any warranty or merchantability, fitness for a particular purpose, usage of trade, course of dealing or course of performance in connection with this agreement. In no event shall Mar-flex be liable on any such warranty with respect to the products. Mar-flex shall not be liable for incidental or consequential damages including, but not limited to damages of the structure, its replacement, contents or personal injury. Some states do not allow limitations on how long an implied warranty lasts or allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

HEALTH AND SAFETY INFORMATION IS GIVEN IN THE MATERIAL SAFETY DATA SHEET AND THE PRODUCT DATA SHEET AVAILABLE FOR THIS PRODUCT. THESE SHOULD BE READ AND UNDERSTOOD BEFORE USING THIS PRODUCT.

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