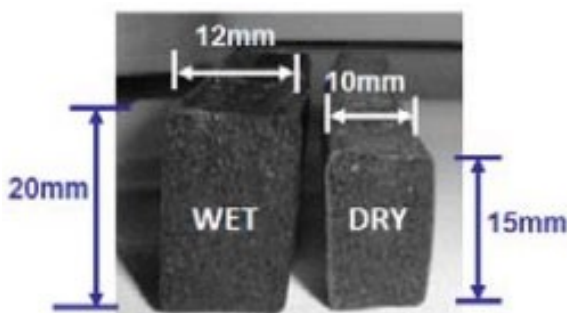




ADEKA ULTRASEAL® KBA-1510FP is a chemically modified natural rubber (vulcanized) product. The manufacturing process chemically bonds a hydrophilic agent to the rubber. This permits the seal to undergo controlled expansion when exposed to moisture. This expansion capability provides a "double locking" waterstop i.e. one from rubber's natural resilience and one from expansion pressure generated when it is exposed to water. KBA-1510FP has excellent



Expanded vs. Initial State
30% by volume

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

BASIC USE

The product is designed for non-moving joints. Because of its low expansion pressure, it can be used in areas with a minimum of one inch of concrete coverage. Lower expansion pressure allows the product to be used between the wet face of the concrete and rebar provided there is a minimum of one inch of concrete coverage. Placing KBA-1510FP in this position will protect the rebar from moisture. KBA-1510FP is suitable for use between non-moving pre-cast segments where tolerances are within the limits of KBA-1510FP (KBA-1510FP must be compressed in all areas).

PRODUCT DESCRIPTION

Size	15mm X 10mm (0.59" X 0.39")
Packaging	25 meters (82 feet per case) 10 lbs per case

PROPERTIES

Density	0.7mg/m ³
Tensile Strength	0.78 MPa
Elongation	350%
Volume % Change	30%
Vulcanization	Yes
Expansion Pressure	0.03 MPa

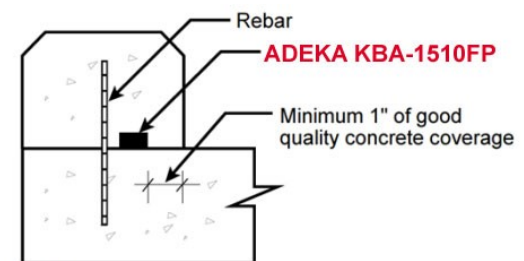
Tested by press sheet of KBA compound.
Property values are representative values and not specification values.

SAFE AND COST EFFECTIVE WATERSTOP

USE IN

**Concrete joints • Precast structures
Containment curbs • Piping penetrations**

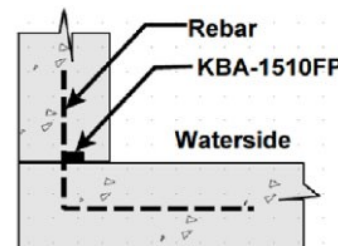
Use in areas where hydrostatic head is less than 25 feet.



No Scale

Containment curb

Due to low expansion pressure, KBA-1510FP can be used as waterstop in small concrete containment curbs.



Place on waterside of rebar to help protect rebar from water-induced corrosion. Must have at minimum 1" of good quality concrete coverage. Concrete must be well consolidated around the waterstop.

OCM, Inc.

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BASIC INSTALLATION

METHOD 1 (Attaching waterstop to smooth concrete):

1. Surface of the concrete must be clean, dry and free from any loose debris.
2. Press OCM 75BRTAPE onto the substrate and remove the release paper. Press the appropriate ADEKA product very firmly onto the Butyl tape. Check for any gaps between the product and the substrate. If gaps are present, fill the gaps using ADEKA P-201 applied to the side of the strip. Use ADEKA P-201 on concrete joints and on side-by-side splice joints as usual. You can place concrete immediately, no waiting for curing time.

OR

- Apply small bead of P-201 approximately $\frac{1}{4}$ " X $\frac{3}{8}$ ". Press KBA-1510FP into bead of P-201. Smooth excess P-201 against side of KBA-1510FP as shown. Allow curing time (estimate 1~2 days) before placing concrete. Place a nail or screw every 12~14 inches if concrete must be placed immediately.
3. Place concrete without displacing or disturbing the position of the waterstop.



METHOD 2 (Attaching waterstop to rough concrete with P-201. This method can be used on smooth concrete as well):

1. Surface of the concrete must be clean and free from standing water.
2. Apply small bead of Adeka Ultra Seal P-201 ($\frac{1}{16}$ " X $\frac{3}{8}$ "). Use enough material to fill any void between the KBA-1510FP and the concrete surface.
3. Press KBA-1510FP into the P-201 while it is still in the paste state.
4. Use a wet tool or gloved finger to remove any excess P-201 (see details).
5. Allow sufficient curing time to adhere KBA-1510FP before placing concrete (time varies by temperature - approximately 4 hours at 68 -70 degrees F.).
6. Place concrete without disturbing or displacing the waterstop.

SEE INSTALLATION GUIDE FOR MORE DETAILED INSTRUCTIONS

HYDROSTATIC HEAD

Pressure Test:

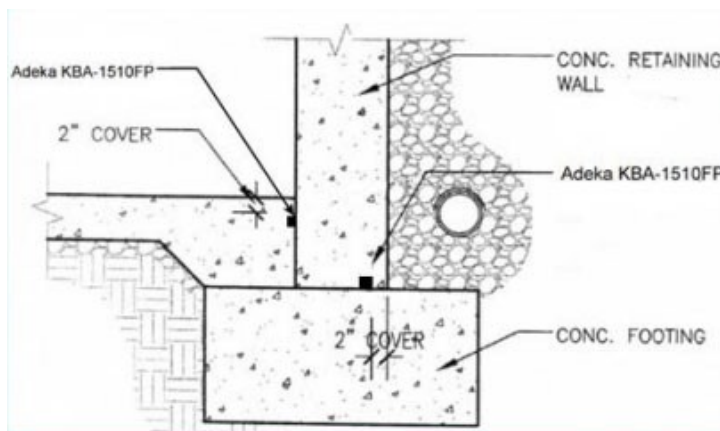
1. Hold pressure for 3 minutes for every 0.05 MPa (7.1 psi) increase.
2. Increase pressure in 0.05MPa increments until leak is detected.
3. Discontinue test for one week.
4. Resume test with above sequence - increasing pressure by 0.10 MPa (14.2 psi)

Results:

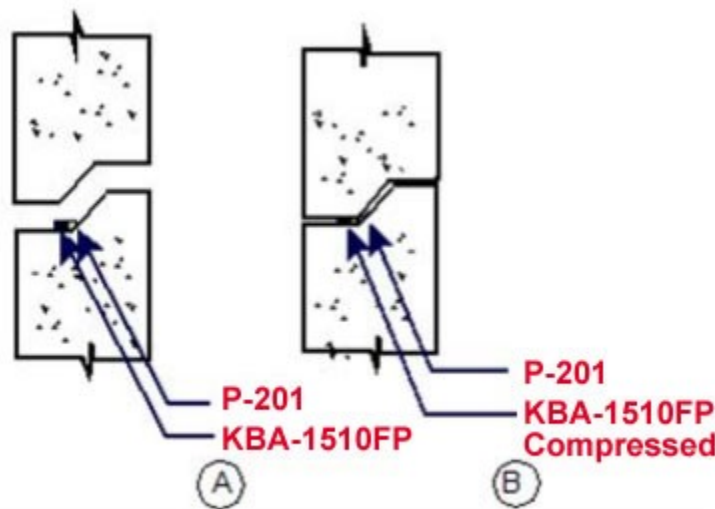
NO LEAKAGE at 0.20 MPa (28.4 psi - approximately 57 foot hydrostatic head).

WHERE TO USE KBA-1510FP

Replace 4" flat PVC waterstop (wall /slab : slab / wall)



Between Precast Segments



(Less than 25 foot hydrostatic head)

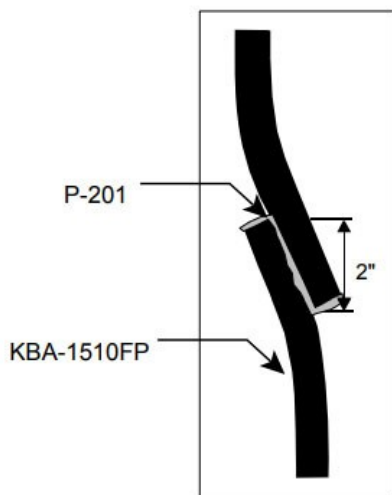
KBA-1510FP waterstop is designed for:

- EASY installation
- Non-moving joints
- Hydrostatic head of 25 feet or less
- 4 inch or greater concrete walls and slabs
- Place on waterside of rebar for extra protection

NOTE: The information contained herein is based on our present state of knowledge and is intended to provide general notes on Adeka Waterstops and their use. Any recommendations or suggestions, which may be made, are without guarantee, since the conditions of use are beyond our control. Furthermore, nothing contained in this publication shall be construed as a recommendation for any use that may infringe patent rights. Readers are cautioned to satisfy themselves as to the suitability of such goods for the purposes intended prior to use.

ADEKA ULTRASEAL® KBA-1510FP ATTACHMENT PROCEDURE With Adeka P-201

- (A) Cut nozzle at the tip.
- (B) Apply 1 /16" X 3 /8" bead. Apply thicker bead if the concrete is rough. There must be sufficient P-201 to fill any rough areas or voids. One cartridge of P-201 will cover approximately 20~30 feet at bead size of 1 /16" X 3 /8" .
- (C) Press KBA-1510FP into the P-201 while it is still in the paste state. Note some P-201 will be forced out to the side.
- (D) Remove excess P-201. Use a 3/8" dowel dipped in water or similar tool to remove and smooth P-201. Allow sufficient curing time before placing concrete (approximately 8-10 hours depending on temperature). Check adherence before pouring concrete. Allow more time if not firmly attached to the concrete..

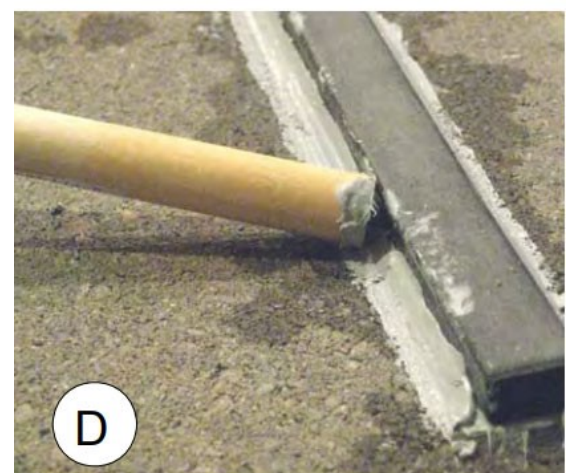
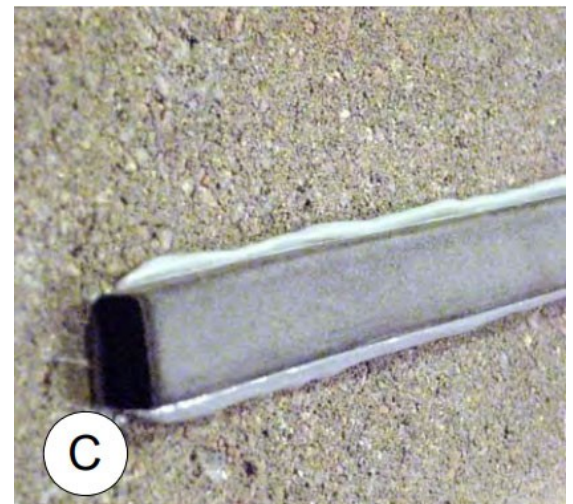
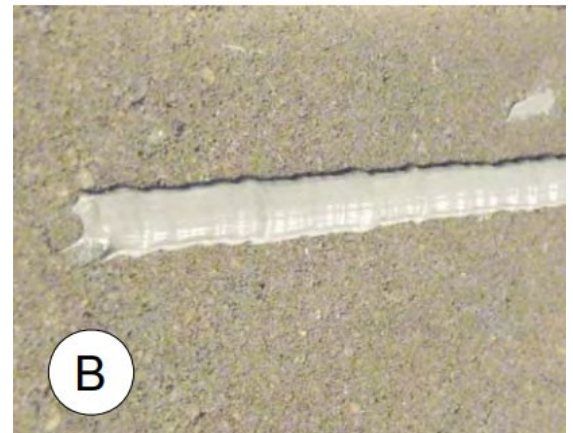


Adhere ends with rubber adhesive or P-201

Side by Side Overlap Procedure



Corner Joint



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