

SEALING INSTRUCTION OF WALL PASSES & CABLES AGAINST WATER UNDER PRESSURE

*(WALL PASSES & INLETS, RUNNING WATER LEAKS,
WALL PENETRATION INSIDE BUILDINGS
MULTI PIPE & CABLE INLETS)*

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1. OBJECTIVE AND SCOPE OF THESE INSTRUCTIONS

The manual describes the technology of using the system for sealing cable / pipe penetrations in underground parts of the structure against moisture and water at a pressure below 0.3 bar using the following materials:

- sealing compound: ANTICOR Seal 511,
- plastic mortar: ANTICOR Seal 505,
- 2K PUR foam or PE cord.

The system has no fireproof properties and it is not certified against fire retardants.

2. NORMATIVE DOCUMENTS

Company standards and recommendations.

3. EQUIPMENT

- Cartridge 310 ml,
- Sandpaper, cleaning cloth, container for mixing mortar, water, spatula,
- Protective clothing, gloves, glasses.

4. DESCRIPTION OF SEALING MATERIAL

ANTICOR Seal 511 is a synthetic, viscoelastic, permanently plastic material, resistant to moisture and water under pressure. It is characterized by high adhesion to concrete, ceramic, plastic, and metal surfaces. ANTICOR Seal 511 does not change its properties over the entire period of use.

It does not contain substances harmful to health and the environment.

5. SYSTEM PROPERTIES

- a) wide range of continuous work temperature,
- b) synthetic ingredients of the product ensure excellent sealing properties,
- c) adhesion to wet and dry surfaces,
- d) the minimum surface preparation required,
- e) does not harden, remains permanently flexible and elastic,
- f) easy and quick application, the compound is re-usable,
- g) tightly fills and seals the insulated spaces and hollows, blocking the access of water and moisture to the inside of the building,
- h) safe - does not contain components hazardous to human health and the environment (PZH Certificate).

PHISICAL & OPERATING PROPERTIES OF ANTICOR Seal 511		
Parameters	Unit	Value
Working temperature	°C	-15 ÷ +50
Application temperature	°C	+10 ÷ +35
Density	kg/dm ³	1,46
Water absorbtion	% _{mas}	< 0,035
Breakdown voltage	kV/mm	7,2
Volume resistivity	Ωm	1,4*10 ¹²
Flash point	°C	> 238
Adhesive to concrete and plastics	cohesive	

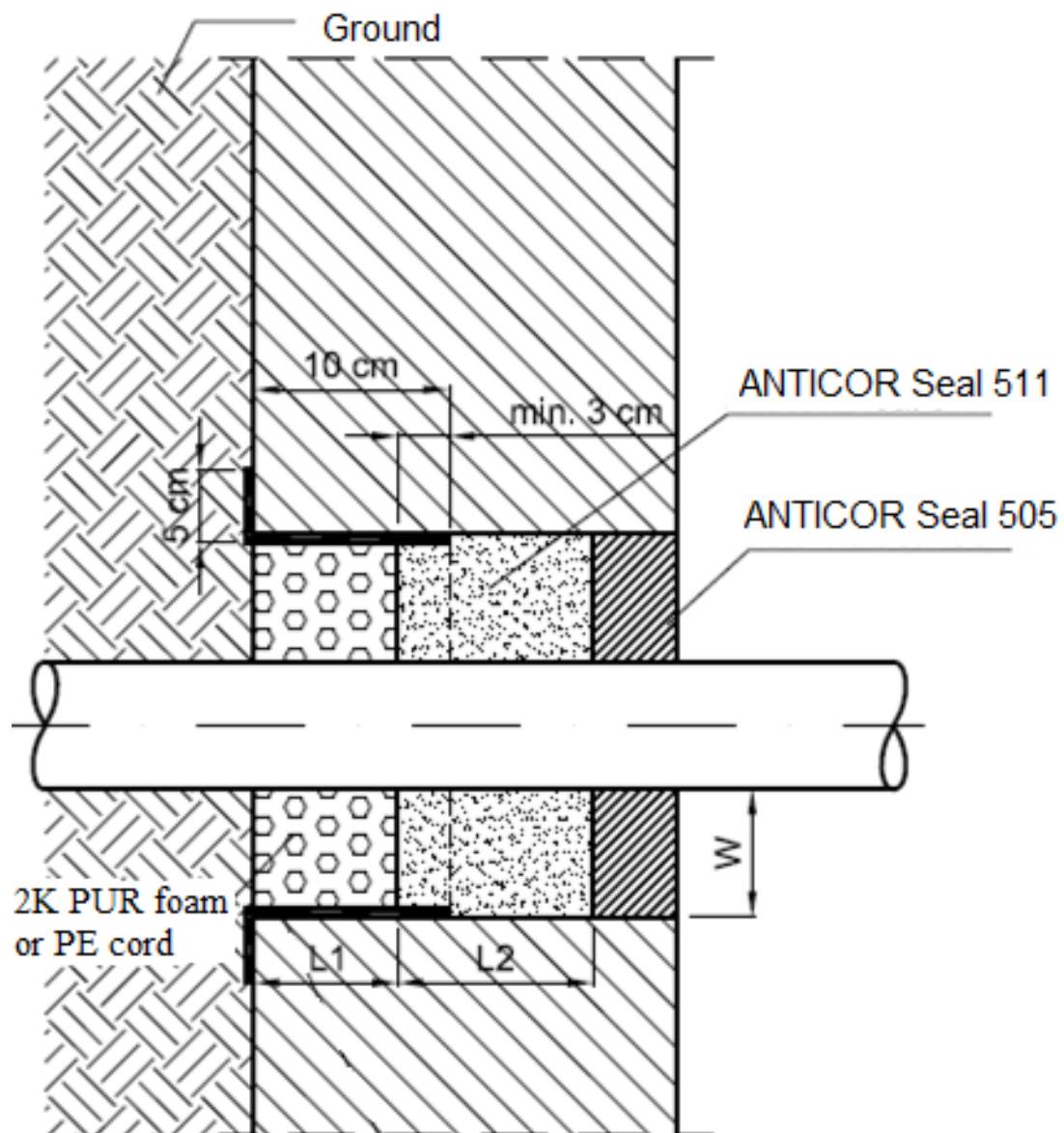
The product is available in the package: 310 ml cartridge.



6. TECHNOLOGY

Technological requirement:

1. The diameter of the through-hole should enable a seal with a minimum width W (see drawing) of 25 mm.
2. The maximum diameter of the culvert - 300 mm.



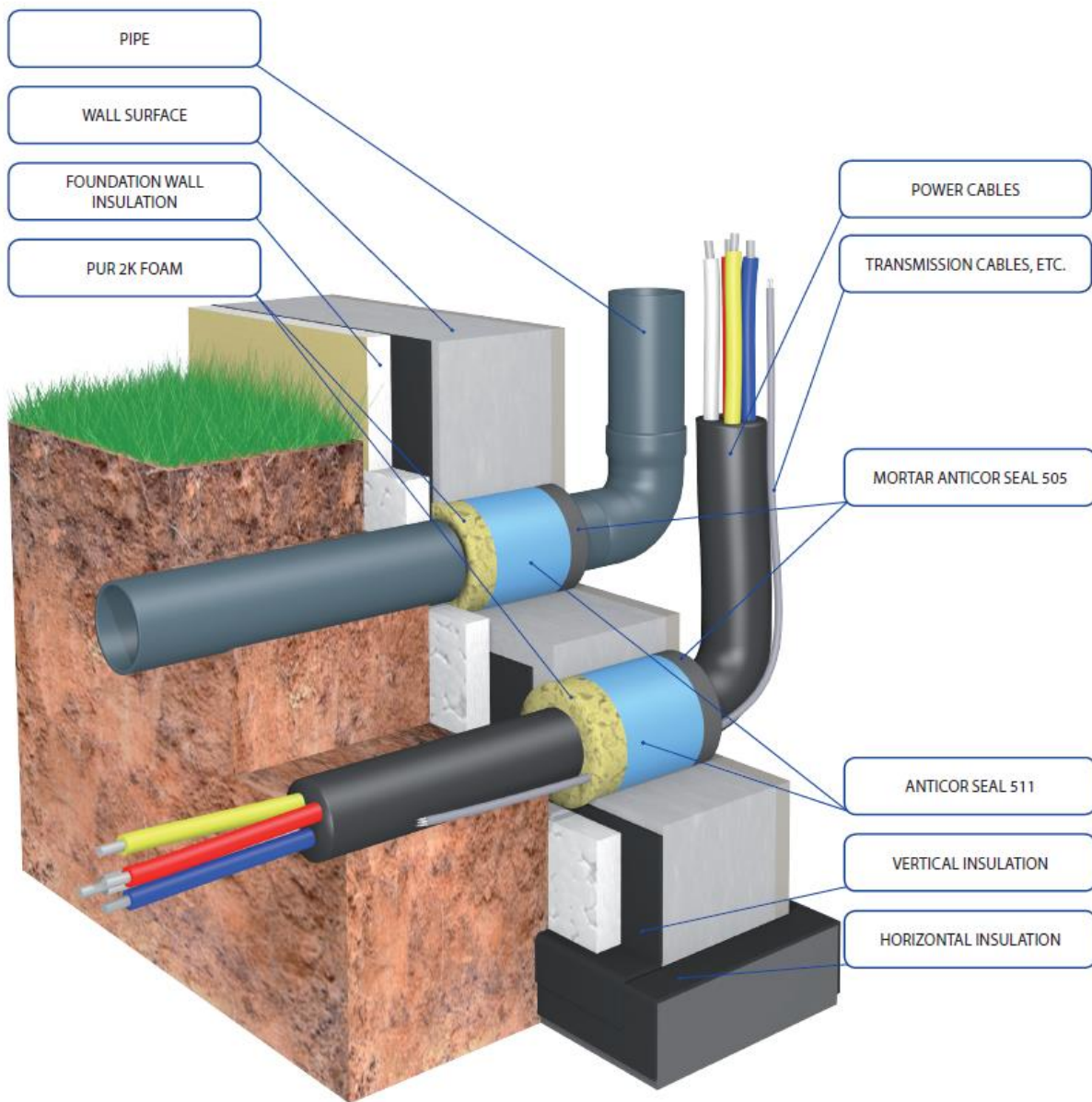


Fig. 1. The structure of the culvert sealing.



STEP 1: PRIOR TO APPLICATION, PREHEAT THE CARTRIDGES UP TO 30÷40°C.



STEP 2: INSERT THE PRE-HEATED CARTRIDGE INTO THE INJECTION TOOL AND INSTALL APPROPRIATE NOZZLE.



STEP 3: CLEAN THE DUCT FROM SOLID DIRT, DUST AND GREASE.



STEP 4: USE A FOAM OR PUR 2K FOAM (5 ÷ 7 CM LENGTH) AS SUITABLE BACKSIDE BARRIER AND TO SEPERATE THE CABLES FROM EACHOTHER.



STEP 5: THE INLET IS PREPARED FOR THE NEXT STEP.



STEP 6: INSERT THIS BACKSIDE BARRIER AT THE DEPTH OF APPROX. 15 CM IN THE INLET.



STEP 7: THE COMPOUND ANTICOR SEAL 511 SHOULD BY APPLIED OVER A LENGTH OF 10 ÷ 12 CM.



STEP 8: START INJECTION OF THE COMPOUND ANTICOR SEAL 511 WITH THE APPLICATION GUN AROUND THE CABLES. MOVE THE NOZZLE FROM SIDE TO SIDE, WHILE SLOWLY MOVING THE NOZZLE OUTWARDS.



STEP 9: ENSURE THAT NO CAVITIES OCCURE. IT MAY BE NECESSARY TO MOVE THE CABLES SLIGHTLY BACK AND FORTH TO ENSURE 100% TIGHTNESS.



STEP 10: THE COMPOUND MUST BE COVERED WITH A BARRIER OF WATER RESISTANT MORTAR ANTICOR SEAL 505.



STEP 11: SMOOTH THE SURFACE OF THE MORTAR BY USING A PUTTY KNIFE AND SOME WATER.



STEP 12: THE WALL INLET IS FULLY SECURED.