

Trenchless method for repairing the inner surface of a pipe in a water conveyance system involves forming a plastic pipe inside it by spirally winding a profiled plastic strip using a specialized machine. The profile of the plastic tape is joined by securing elements, which, as the profiled plastic strip is wound in a spiral, form a continuous, watertight pipe inside the pipe of the water conveyance system being repaired. The space between the pipes is filled with cement mortar. During the spiral winding process, the preceding and subsequent turns of the profiled plastic strip are joined using securing elements. The securing elements are designed as interlocking elements arranged along the edges of the outer surface of the profiled plastic strip, one edge of which features a double primary interlocking element of a specified profile. On the opposite edge of the profiled plastic strip, a double secondary locking element is located, with a corresponding portion that matches the profile of the cavity in the primary locking element. The primary locking element and the secondary locking element form a locking joint during the spiral winding process. At least two T-shaped stiffening ribs are formed along the outer surface of the profiled plastic strip, and a reinforcing element made of metal reinforcement of a specified configuration is installed. The inner surface of the profiled plastic strip forms a smooth, airtight surface on the plastic pipe of a specified diameter along the entire length of the section being repaired.