



# ARDEX HUMISTOP PLUG

## Instant Setting Water Plug Mortar

- Effectively seals connections, cracks, and holes in concrete and walls, preventing the infiltration of active water and leaks.
- Swells instantly, providing permanent waterproofing.
- Used in the insulation of joints and cracks in water tanks and reservoirs.
- Urgently stops gas leaks.
- Non-toxic, suitable to contact with drinking water.
- Does not contain chemicals that cause chloride and corrosion.
- Suitable for both indoor and outdoor use.



### Description

Cement-based instant setting water plug mortar. Upon application, it undergoes instant swelling, ensuring permanent waterproofing without any shrinkage. Drying quickly and abruptly stopping leaks, the product does not contract but slightly expands. Its mechanical properties are comparable to, or even exceed, those of concrete. Non-toxic and suitable for drinking water, it can be applied underwater. It does not contain chemicals that cause chloride and corrosion, making it easy to apply.

### Scope of Use

- Isolation of water leaks in concrete and walls.
- Isolation of water pipes in concrete under hydrostatic pressure.
- Urgent cessation of gas leaks.
- Isolation of joints and cracks in water tanks and reservoirs.
- Assembly of bolts and various accessories that require immediate use.
- Stopping leaks in systems such as foundations, tunnels, sewage, etc.

### Substrate Preparation

Holes, Cracks, and Voids: Should be opened to a depth of 4 cm and a width of 3–4 cm. To provide sufficient mechanical strength, a square-section groove should be opened; a “V” section will not be sufficient. The opened groove should be washed with high-pressure water.

Cracks and Structural Joints: Cracks in structural joints should be opened up to a depth of 5 cm, and loose and all weak surfaces should be removed.

Wall and Floor Joints: Create openings of 2 x 3 cm dimensions in wall and floor joints where insulation is needed, and cleanse them with clean water.

### Application

Under normal conditions, mix an amount of ARDEX HUMISTOP PLUG that you can apply within a minute. A plastic container should be used to mix the mortar. Pour an amount of ARDEX HUMISTOP PLUG into the container that can be applied at once, and mix until it reaches a mortar consistency. Depending on weather conditions, one kilogram of HUMISTOP PLUG requires 0.3 liters of water.

Hold the mixture with gloved hands until it warms slightly. Then, forcefully fill the gap with the mortar, pressing without pulling with your hand or a trowel. This pressure should be applied for approximately 2–3 minutes. If the gap is too large to be filled in one go, start the filling process from the edges and work towards the center.

In the case of large voids, start the filling process from the upper part where the pressure is less and complete the filling process downwards. After stopping the active water flow, the surface of the filled area should be leveled with the surrounding surface.

In cases where there are cracks with excessive water pressure, the



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same procedures as mentioned above are repeated, but a small drainage gap is left to allow the product to harden sufficiently. After the material has hardened, the remaining gap is filled.

ARDEX HUMISTOP PLUG reaches its full strength within 2–3 minutes at +20°C. In higher ambient temperatures, the reaction time can be extended by using cold water. In low temperatures, hot water can be used.

The application should be carried out between +5°C and +30°C.

### Precautions

Contains cement; may cause irritation to the eyes and skin. Keep away from children. Avoid contact with eyes and skin. In case of contact with eyes, rinse with clean water and seek medical attention. If it comes into contact with the skin, wash thoroughly with plenty of water and soap. Use protective goggles and gloves.

After drying, it is physiologically and environmentally harmless.

After use, disposal of waste and empty packaging should be done in accordance with applicable local, regional, national, and international regulations.

### Technical Data According to ARDEX Quality Standards

|                         |  |
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| Appearance:             | Gray powder  |
| Mixing ratio:           | Approximately 0.28 liters of water per 1 kg of powder  |
| Busk density:           | Approximately 1.15 kg/l  |
| Weight of fresh mortar: | Approximately 1.95 kg/l  |
| Working time:           | Approximately 1 - 3 minutes  |
| Packaging:              | 5 kg paper bag   |
| Storage and shelf life: | Can be stored for approximately 6 months from the date shown on the packaging, in its original sealed packaging, between +5 and 25°C, under dry conditions without the risk of freezing. |