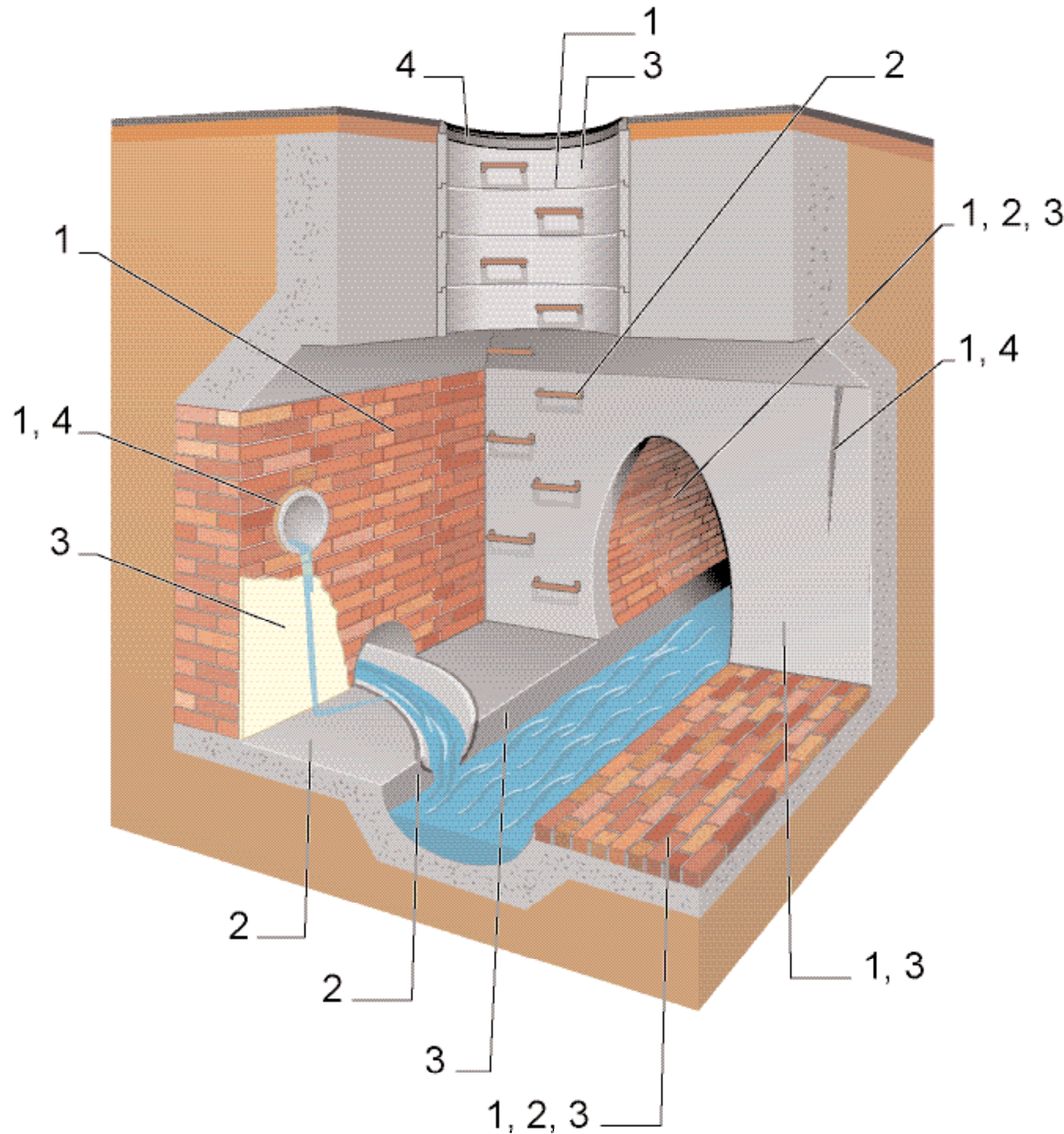


# MAINTENANCE AND PROTECTION OF SEWAGE CONSTRUCTIONS



*All against Water*



## 1. Products to stop infiltrations of water

- 1.1 **IPANEX PLUG MORTAR W**  
Plugging mortar, slightly expanding for rapid sealing of leakages under hydrostatic pressure, also suitable for glueing of the tube intersections
- 1.2 **IPANEX AREA Proof WF**  
Powder for sealing leakages, powder is rubbed into seepage
- 1.3 **IPANEX R**  
Liquid concentrate used with cement for sealing leaks and water seepage
- 1.4 **IPACRYL GEL concentrate**  
Low viscose, 2-component acrylic gel, with high water binding properties, to seal water bearing cracks, water seepage and joints
- 1.5 **IPAPUR VM 1K**  
1 single comp. foaming PU-Injection resin to seal cracks and cavities against water under hydrostat pressure by injection

## 2. Mortars for repairing

- 2.1 **IPA Unimörtel**  
Water proof repair mortar on cement base, rapid setting, for sealing joints of concrete elements for manholes
- 2.2 **IPA Unimörtel Rapid**  
Shrinkage compensated, quick set, early reloadable repair mortar for sewage pipes, to repair concrete defects, joints and to place ceramic half-pipes
- 2.3 **IPA Unimörtel Konz**  
Cement based mortar concentrate gives fast setting mortars with high early strength and elevated mechanical and chemical resistance

## 3. Cementitious protective coatings

- 3.1 **IPA Slurry Kanal ph+ and IPA Liquid ph+**  
Component slurry on cement base modified by acrylic latex, waterproof against hydrostatic pressure up to 15 m and with high chemical (up to ph 3,5) and mechanical resistance
- 3.2 **IPA 2K Silica mortar**  
2-component silicate mortar, with high mechanical and chemical resistance against corrosion caused by biogene sulfuric acid
- 3.3 **IPA Mortar Kanal ph+**  
Mortar to repair sewage constructions with high resistance against sulphuric acid (up to ph 3,5)
- 3.4 **IPAFIT PU/Silicate mortar**  
Polymer modified mortar, chemical resistant in the range from ph = 0 to ph = 14 for coating of manhole for fuel tanks, applicable in one layer up to 4 mm thickness
- 3.5 **IPA Unimörtel Kanal ph+**  
Plastic-annealed repair mortar for waste water plants, dry mortar according to DIN 1857 consisting of cement according to DIN 1164, silica sand, additional agents and additives

## 4. Related Products

- 4.1 **IPA Silicat Injection System**  
To harden and fill up backgrounds
- 4.2 **IPANOL IH**  
2 comp. epoxy resin for ragged constructions of cracks and cavities, very adhesive on dry and wet substrate, curing even under water
- 4.3 **IPAPOX IH/L**  
Solvet-free, low-viscosity, 2-component epoxy resin, also usable on moistured substrates
- 4.4 **IPA Injection grout S**  
Very quick setting injection grout on cement base, especially for subsequent injections of pipe coupling (by robots), and pipe coupling offsets to subsequently refill voids and cavities between new and old linings with the relining method
- 4.5 **IPA VGM**  
High early and high ultimate strength non shrink structural grout