

PREIS®

DRAINAGE SYSTEMS

KML - Cast Iron Socketless Drain Pipe Systems for Special Requirements





PREIS® KML - the cast iron drainage pipe system for special requirements

The discharge of particularly aggressive wastewater from facilities such as canteens, commercial kitchens, laboratories, medical facilities, etc. brings about special demands on drainage pipes.

Due to the properties of the materials used, **PREIS® KML** offers all advantages attributed to a cast iron drainage system such as soundproofing properties, fire safety, temperature resistance, etc. In addition to this, **PREIS® KML** pipes are coated on both sides, inside and outside, applying a highly resistant coating with a special procedure; this provides protection against aggressive sewage water and ensures that the pipes are suitable for underground laying.

Coating technology used in PREIS® KML pipes

Aggressive wastewater by default may be defined through its components and their composition as well as through the fluctuating temperature. Moreover, the trend to save water in building drainage leads to an increased concentration of organic and inorganic substances in drainage pipes.

The coating applied inside and outside causes **PREIS® KML** to be ideal for these special requirements.

The inside coating of **PREIS® KML** consists of a double fully cross-linked epoxy resin coating, each of them being 120µm thick. The exterior of the pipes is provided with a zinc coating of 130 g/m² and an epoxy resin cover coating of at least 60µm thickness.

Epoxy resin cover coating at least 60µm thick

Zinc coating 130 g/m²

Grey cast iron with lamellar graphite according to EN 1561

Double coating of the interior Fully cross-linked epoxy resin layers, each of them 120µm thick

FP PREIS® KML



Couplings

For oleiferous wastewater and effluents containing benzene we recommend our **PREIS® Rapid couplings** with NBR gaskets as an alternative. If the **PREIS® KML** piping system is underground-laid or it is exposed to various weather conditions, we recommend the **PREIS® Rapid INOX coupling** made of stainless steel.

Chemical resistance

PREIS® KML is the perfect solution for building drainage whenever the composition of wastewater requires specific materials. As resistance of the pipe system against wastewater is not only influenced by the composition of chemical elements, but also by pressure, temperature, etc., details given in the table have to be taken as a recommendation for your orientation.

For detailed information, please, ask for our form „Resistance”. Send us your detailed specifications or a sample - we will be pleased to analyse it in our laboratory.

Resistance of PREIS® KML					
		pH	20° C	60° C	80° C
WATER					
Saltwater NaCl	30g/l	5,6			
Demineralized water		6,6			
Wastewater		6,9			
INORGANIC ACIDS					
Hydrochlorid acid HCL	5%	1,0			
Sulphuric acid H ₂ SO ₄	10%	1,0			
Sulphuric acid H ₂ SO ₄	1%	2,0			
Phosphoric acid H ₃ PO ₄	10%	1,3			
Phosphoric acid H ₃ PO ₄	5%	1,8			
Phosphoric acid H ₃ PO ₄	42%	2,0			
Nitrid acid HNO ₃	10%	2,0			
ORGANIC ACIDS					
Lactic acid	10%	1,1			
Lactic acid	1%	2,2			
Citric acid	5%	2,0			
Vinegar	30%	2,9			
Vinegar	10%	3,2			
ALKALINE SOLUTIONS					
Sodium hydroxide NaOH		12,0			
Sodium hydroxide NaOH		13,6			
Ammonia NH ₃		12,1			
Potassium hydroxide KOH		13,6			
Potassium hypochlorite alkaline solution	10%	12,0			
	30%	12,0			
	100%	12,5			
SALTS					
KCL	3%	4,2			
NaH ₂ PO ₄	3%	4,2			
(NH ₄) ₂ SO ₄	3%	6,7			



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