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Your FP PREIS® SML sales representative:

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**FP PREIS® KML**

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**KML PIPE SYSTEMS - TESTED QUALITY FOR SPECIAL REQUIREMENTS**

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# FP PREIS® DRAINAGE SYSTEMS

## KML - Cast Iron Socketless Drain Pipe Systems for Special Requirements





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

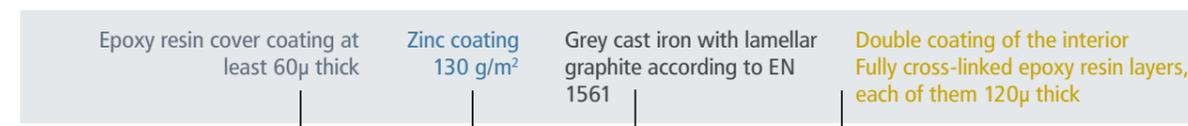
The discharge of particularly aggressive wastewater from facilities such as canteens, commercial kitchens, laboratories, medical facilities, etc. brings about special demands on drainage pipes.

Due to the properties of the materials used, **FP 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, **FP 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.

### Beschichtungstechnologie von FP PREIS® KML

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 **FP PREIS® KML** to be ideal for these special requirements. The inside coating of **FP PREIS® KML** consists of a double fully cross-linked epoxy resin coating, each of them being 120µ thick. The exterior of the pipes is provided with a zinc coating of 130 g/m<sup>2</sup> and an epoxy resin cover coating of at least 60µ thickness.



## Couplings

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

## Chemical resistance

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