



# Kersten Kunststoffcoating

**Rilsan**



**Resicoat**



**Fluoropolymers**



# Kersten Kunststoff(f)coating

## General

Kersten Kunststoffcoating has many years' experience with high-quality plastic coatings. We have been coating pipe system with Rilsan since 1967 by dipcoating in a fluidised bed. We opened a plant in Brummen in 1973 to meet the growing demand for Rilsan in the potable water production market. A few years later we added the fluoropolymer Halar ECTFE to our range of coatings. Ongoing modernisation saw more fluoropolymers added to our range in 1992.



*Dipcoating*



*Oven and dipcoat installation*

At the same time, we built a system for the environment-friendly removal of old coatings. In 1996 we constructed an ultra-modern production plant in Kahla (Thüringen) in Germany. This plant applies

the same high-quality coatings as our plant at Brummen in the Netherlands. Recently we have added the fluoropolymers from DuPont to our Fluoropolymer group.

## Properties coatings

Kersten Kunststofcoating applies several high-quality plastic coatings on all kinds of metals with different properties.

coating	certificate	procedure	thickness µm	max. use temperature °C*)	application temperature °C
Rilsan, Polyamide 11	Wics KIWA DVGW	DC	300-500	80	300
		EPS	100-150		
Resicoat, Epoxy	Wics KIWA DVGW	DC	300-400	80	200
		EPS	100-150		
PTFE	foodcontact	WS	15-40	280	370
FEP	foodcontact	EPS	50-100	205	370
PFA	foodcontact	EPS	50-100	260	370
PFA Ruby Red		EPS	400-1000	260	370
ETFE	foodcontact	EPS	400-1000	150	300
Halar, ECTFE	foodcontact	EPS	400-1000	150	300

### Procedure

DC Dipcoating  
 EPS Elektrostatic Powder Spray  
 WS Wet spraying

### Explanation:

+/- sufficient  
 + good  
 ++ very good  
 +++ excellent

\*) Max. use temperature is also depending on the chemical properties of the medium.

\*\*) Other colours on request.

corrosion protection	coating procedure non-sticking	abrasion resistance	type of plastic	colours **)
++	+/-	++	thermoplastic	grey, white black, blue
++	+/-	++	thermoset	blue
+/-	+++	+/-	thermoplastic fluoropolymer	black
++	+++	+	thermoplastic dispersion	black
++	++	+	thermoplastic fluoropolymer	black
+++	++	++	thermoplastic fluoropolymer	red
+++	+	++	thermoplastic fluoropolymer	green cream
+++	+	++	thermoplastischer fluoropolymer	green cream



Potable water installation,  
Bergen op Zoom (NL)

### Kiwa and Wics certificates

The Wics product conformity certificate is issued for the manufacture of Rilsan and Resicoat fine powder coatings for corrosion protection of fittings for use with potable water.

Coatings used for potable water applications in the Netherlands must have a Kiwa product certificate BRL-K759 (coatings for potable water applications). Kersten Kunststofcoating has a Kiwa BRL-K746 process certificate (application of coating systems for use with potable water) for applying powder coatings by dipping in a fluidised bed.

Products for coating need to be constructed in accordance with the Kiwa certificate BRL-K758 (construction of metal products, which are suitable to coat).

Couplings,  
coated with  
Resicoat



### Rilsan

Rilsan is a thermoplastic powdercoating made from vegetable ricinus oil. This oil is extracted from seeds of the ricinus communis plant cultivated in South-America, India and elsewhere. The seeds of the ricinus communis contain approximately 45% oil. This oil is used as the basis for a monomer. Through polymerisation, Arkema, France, produced the polymer, nylon 11, which Arkema has called Rilsan.



### Resicoat

Resicoat is a high-quality coating based on an epoxy resin made by Akzo Nobel. Some of the types, RT 9000 R4 have a Kiwa product certificate for potable water applications.

### Fluoropolymers

This specific group of coatings combines exceptional non-stick and low friction properties with excellent resistance to corrosion, even at high temperatures.

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**Brummen**



**Kahla**



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### **Kersten Kunststoffcoating B.V.**

P.O. Box 40, NL-6970 AA Brummen  
Vulcanusweg 2, NL-6971 GW Brummen  
The Netherlands  
Phone: (+31)0575 561500  
Fax: (+31)0575 561829  
E-mail: [info@kersten-bv.nl](mailto:info@kersten-bv.nl)  
Homepage: [www.kersten-bv.nl](http://www.kersten-bv.nl)

### **Kersten Kunststoffcoating GmbH**

Im Camisch 20, D-07768 Kahla/Thüringen  
Germany  
Sales: Phone (+49)036424 8899  
Fax (+49)036424 8898  
Production: Phone (+49)036424 8890  
Fax (+49)036424 8891  
E-mail: [info@kersten-gmbh.de](mailto:info@kersten-gmbh.de)  
Homepage: [www.kersten-gmbh.de](http://www.kersten-gmbh.de)