

## Product data sheet

### Powder coating and sheet metal

#### Materials used for Köttermann furniture

##### Sheet metal

Sheet steel electrolytically galvanized, phosphated  
Material and surface: DC01+ZE25/25-A-PC  
DIN: EN 10152  
Sheet metal thickness: 0,75mm - 2mm

##### Powder coating

Quality: Polyester  
Colour: Arctic White  
Colour coding: NCS S0505 R80B  
Coating thickness: 70 µm on average  
→ Certified proof of layer thickness according to DIN EN ISO 2178:2016 part 11 (magnetic method)



## Resistance test results

Salt spray test:	according to DIN EN ISO 9227 after 250 h infiltration at the cut < 2 mm
Condensation water test:	according to DIN EN ISO 6270-1 after 1000 h no bubble formation or loss of gloss
Immersion water test:	according to DIN EN ISO 2812-2 after 240 h no bubble formation or loss of gloss

### Determination of resistance to liquids according to DIN EN ISO 2812:2007 Part 1

Surface changes were visually rated (range from 0= unchanged to 5=extreme degradation)

#### Result:

Testing substance	24 hours			
	Loss of gloss	Loss of colour	Swelling	Softening
<b>Formic acid</b> (10 % solution) CAS-no 64-18-6	very low (1/5)	unchanged (0/5)	unchanged (0/5)	unchanged (0/5)
<b>Hydrochloric acid</b> (25 % solution) CAS-no 7647-01-0	unchanged (0/5)	unchanged (0/5)	unchanged (0/5)	unchanged (0/5)
<b>Sulfuric acid</b> (25 % solution) CAS-no 7664-93-9	unchanged (0/5)	unchanged (0/5)	unchanged (0/5)	unchanged (0/5)
<b>Sodium hydroxide</b> (25 % solution) CAS-no 1310-73-2	medium (3/5)	very low (1/5)	unchanged (0/5)	unchanged (0/5)

### Determination of resistance to liquids according to DIN EN ISO 2812:2019 Part 3

Surface changes were visually rated (range from 0= unchanged to 5=extreme degradation)

**Result:**

Testing substance	10 minutes exposure time	60 minutes exposure time
<b>Ethyl acetate</b> (100 % solution) CAS-no 141-78-6	unchanged (0/5)	unchanged (0/5)
<b>Toluene</b> (100 % solution) CAS-no 108-88-3	very low (1/5) - Loss of gloss	low (2/5) - Loss of gloss
<b>Methylene chloride</b> (100 % solution) CAS-no 75-09-3	extreme degradation (5/5) - Swelling / Softening	extreme degradation (5/5) - Swelling / Softening
<b>Petroleum ether</b> (100 % solution)	unchanged (0/5)	unchanged (0/5)
<b>Acetone</b> (100 % solution) CAS-no 67-64-1	unchanged (0/5)	unchanged (0/5)

**Result:**

Testing substance	24 hours exposure time
<b>Formic acid</b> (10 % solution) CAS-no 64-18-6	unchanged (0/5)
<b>Hydrochloric acid</b> (25 % solution) CAS-no 7647-01-0	unchanged (0/5)
<b>Sulfuric acid</b> (25 % solution) CAS-no 7664-93-9	unchanged (0/5)
<b>Sodium hydroxide</b> (25 % solution) CAS-no 1310-73-2	very low (1/5) - Loss of colour strong degradation (4/5) - Loss of Gloss