



# **DD-coating**

## **Chemical resistance**

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## DD-Coating Chemical resistance

### Properties

- solvent-containing 2-K polyurethane top coat
- for indoor and outdoor use
- with very good light and weather fastness
- for industrial coatings
- drying (air drying at 20°C): completely dried after 7 days

### Attention!

Coated products/components must be handled with due diligence and care, avoiding damage, deformations, scratches and the like.

### General information

The chemical resistance is listed below. Adjusting the data must be done over the course of planning and construction on site. No ultimate guarantee can be given or liability assumed in the event of contaminated air that comes into contact with the DD-coated products/components. Please note that we are not sworn experts or consultants and that our opinions only have an advisory character. Our documents are designed to give advice on the basis of present knowledge. However, this information does not exempt you from testing our products yourselves with a view to their intended use.

### Information on using shut-off devices (fire dampers)

Fire dampers (shut-off devices against fire and smoke in air ducts) have been approved by the relevant building supervisory approval Z-41.3-xxx. In section 1.2 "Application range", the tested and approved mounting situations of each type will be described. In this section, (usually all) manufacturers point out that the approval process has not proven that the object under approval is suitable for installation in air ducts in which the function of the shut-off devices is impeded by extensive soiling, extreme moisture or chemical contamination.

For higher requirements in terms of corrosion resistance, the manufacturers of shut-off devices offer protective coatings (e.g. SCHAKO DD coating).

When shut-off devices are installed in ventilation systems containing contaminated air, in particular section 5 "Regulations of use and maintenance" of the relevant general building supervisory approval (abZ) must be observed. The intervals requested by this approval for checking the function of the object under approval may have to be reduced. This must be communicated to the owner of the ventilation system during commissioning; after commissioning and handover of the ventilation system, the owner must have the function checked periodically and is thus responsible for it.

## DD-Coating Chemical resistance

Chemicals		Concentration	Rating
1.	Hydrochloric acid, aqueous	10%	V1
2.	Hydrochloric acid, alcoholic	18%	V3m2g2
3.	Hydrochloric acid, aqueous	conc.	V2
4.	Sulphuric acid	10%	0
5.	Sulphuric acid	40%	V3
6.	Nitric acid	10%	V2m5g2
7.	Nitric acid	40%	V3m5g5
8.	Phosphoric acid	10%	V1
9.	Phosphoric acid	conc.	V2E2
10.	Formic acid	20%	0
11.	Acetic acid	20%	0
12.	Lactic acid	20%	E2
13.	Citric acid	20%	0
14.	Linoleic acid	--	0
15.	Oxalic acid	10%	0
16.	Sodium hydroxide solution	20%	E4
17.	Potassium hydroxide solution	20%	E4
18.	Sodium hydroxide, flakes	--	E4
19.	Ammonia	5%	0
20.	Ammonia	25%	0
21.	Dimethylethanolamine	--	E4m2g4
22.	Ethyl alcohol, pure	--	m3g4
23.	Glycerol	--	0
24.	Methanol	--	m1g4
25.	Diesel oil	--	0
26.	Carbon tetrachloride	--	0
27.	Regular petrol	--	V3
28.	Premium petrol	--	V2 m2g4
29.	Kerosine	--	0
30.	Omo detergent	1%ig	0

Chemicals		Concentration	Rating
31.	Sodium hypochlorite solution (NaOCl)	5% strength	0
32.	H2O, distilled	--	0
33.	Sodium chloride solution (H2O + 3%NaCl)	--	0
34.	Monostyrene	Drilling, cutting and hydraulic oil	E5
35.	Hydraulic oil		0
36.	Chlorothene		E2 m3g4
37.	Shell Garia oil A		0
38.	Addix M		V1
39.	Ratak MHT		V1
40.	Ratak G 2 A		V1
41.	Cimcool	--	V1
42.	Butter	--	0
43.	Margarine	--	0
44.	Shoe polish	--	V3
45.	Lipstick	--	0
46.	Mustard	--	0
47.	Black currant	--	V3
48.	Formaldehyde (10% strength H2O)	10% strength	0
49.	Dibutyl phthalate	--	E3
50.	Chlophen A 60 (chlorinated diphenyl)	--	0
51.	Acid fixing salt (sodium thiosulphate)	10%	0
52.	Eukobrom according to procedure (hydroquinone solution)	--	0
53.	E605 tap water according to procedure	--	V1
54.	Hydrogen peroxide	10%	0

### Rating according to DIN EN ISO 4628-2

(replaces DIN 53 209)

m = Number of bubbles

g = Size of the bubbles

E = Softening

V = Discolouration

### Overall rating:

0 = Best properties

1 = very good properties

2 = good properties

3 = still acceptable properties

4 = properties acceptable to a limited extent with restrictions

5 = lowest, no longer acceptable properties