

## Anhang

Product name	Supplier	Date	Material type/composition	O	Ag	Cu	Pb	Corrosion product
Klucel® MF	Hercules	12.04.2006	Hydroxypropylcellulose	F	P	F	F	Cuprite; massicot, hydrocerussite, lead formate
Klucel® E	Deffner (Hercules)	?	Hydroxypropylcellulose	T	P	P	T	?
Klucel® E	Deffner (Ashland)	09.2021	Hydroxypropylcellulose	T	P	P	T	Massicot, hydrocerussite, basic lead acetate
Klucel® E	Kremer (Ashland)	11.2021	Hydroxypropylcellulose	T	P	P	T	Litharge, hydrocerussite, plumbonacrite, basic lead acetate
Klucel® G	GMW (Ashland)	03.2017	Hydroxypropylcellulose	P	P	P	P	
Klucel® G	Deffner (Ashland)	09.2021	Hydroxypropylcellulose	T	P	P	T	Massicot, hydrocerussite, basic lead acetate
Klucel® G	Kremer (Ashland)	11.2021	Hydroxypropylcellulose	T	P	P	T	Litharge, hydrocerussite, basic lead acetate
Klucel® G IND	Ashland	11.2021	Hydroxypropylcellulose	T	P	P	T	Litharge, hydrocerussite, basic lead acetate
Klucel® GF	Ashland	11.2021	Hydroxypropylcellulose	T	P	P	T	Litharge, plumbonacrite
Klucel® GF Pharm	Ashland	11.2021	Hydroxypropylcellulose	P	P	P	P	
Klucel® L	Hercules	21.01.2000	Hydroxypropylcellulose	T	P	P	T	Hydrocerussite, basic lead acetate
Klucel® M	Deffner	?	Hydroxypropylcellulose	F	P	T	F	Cuprite; massicot, hydrocerussite, plumbonacrite, basic lead acetate
Klucel® M	Deffner (Ashland)	09.2021	Hydroxypropylcellulose	P	P	P	P	
Klucel® M	Kremer (Ashland)	11.2021	Hydroxypropylcellulose	P	P	P	P	
Klucel® H	Kremer	09.2021	Hydroxypropylcellulose	P	P	P	P	
Klucel® JF	Kremer	?	Hydroxypropylcellulose	F	P	F	F	Cuprite; massicot, hydrocerussite, basic lead acetate
Klucel® 99E	Aqualon	22.04.1994	Hydroxypropylcellulose	T	P	P	T	Hydrocerussite, basic (?) lead acetate
Klucel® 99L	Aqualon		Hydroxypropylcellulose	T	P	P	T	Massicot, hydrocerussite, basic lead acetate
Natrosol 250 MHBR	Hercules	05.03.2004	Hydroxyethylcellulose	F	P	P	F	Massicot, hydrocerussite, basic (?) lead acetate
Natrosol 250 HHX	Hercules	05.03.2007	Hydroxyethylcellulose	P	P	P	P	
Tylose® H 100000 YP2	Shin Etsu	11.2016	Hydroxyethylcellulose	T	P	P	T	Massicot, hydrocerussite, basic(?) lead acetate
Tylose® MH 300 G4	Clariant	05.2000	Hydroxyethylcellulose	P	P	P	P	
Hydroxyethylcellulose	Fluka	?	Hydroxyethylcellulose	F	P	T	F	Cuprite, tenorite; massicot, plumbonacrite, basic lead acetate
Ethylcellulose ET200	Kremer	17.11.2015	Ethylcellulose	F	P	P	F	Massicot, litharge, hydrocerussite, basic lead acetate
Culminal MHPC 400	Aqualon	?	Hydroxypropyl methylcellulose	P	P	P	P	
Methocel® E5PRM LV	Dow	11.02.2000	Hydroxypropyl methylcellulose	T	P	P	T	Hydrocerussite

Methocel® E15FG	Dow	11.2003	Hydroxypropyl methylcellulose	P	P	P	P	
Methocel® K4MFG	Dow	10.2003	Hydroxypropyl methylcellulose	T	P	T	T	Cuprite; Hydrocerussite
Culminal MHPC 20000 P	Deffner (Ashland)	09.2021	Hydroxypropyl methylcellulose	P	P	P	P	
Culminal MHPC 20000 P	Hercules	04.2005	Hydroxypropyl methylcellulose	P	P	P	P	
Methyl cellulose	Sigma	09.2021	Methylcellulose	T	P	P	T	Massicot, litharge, hydrocerussite
Methocel® A4M	Deffner (DuPont)	09.2021	Methylcellulose	P	P	P	P	
Methocel® A4M	Dow	12.1997	Methylcellulose	P	P	P	P	
Methocel® A4MFG	Dow	10.2003	Methylcellulose	P	P	P	P	
Methocel® A15C	Dow	06.1992	Methylcellulose	P	P	P	P	
Methocel® A4C	Dow	06.1992	Methylcellulose	P	P	P	P	
Culminal MC 15 S	Hercules	?	Methylcellulose	F	P	T	F	Massicot, hydrocerussite, plumbonacrite, lead formate
Culminal MC 25 S	Aqualon	1992	Methylcellulose	P	P	P	P	
Culminal MC 7000 PF	Hercules	04.2005	Methylcellulose	P	P	P	P	
Benece A4M	Deffner (Ashland)	09.2021	Methylcellulose	P	P	P	P	
Benece A4C	Kremer (Ashland)	09.2021	Methylcellulose	P	P	P	P	
Benece M043	Hercules	?	Methylcellulose	P	P	P	P	
Metolose SM15	Shin Etsu	?	Methylcellulose	T	P	T	T	Cuprite; litharge, hydrocerussite
Benece ME 233 P Pharm	Deffner (Ashland)	09.2021	Hydroxyethyl methyl cellulose	P	P	P	P	
Tylose® MH 50	Hoechst	?	Hydroxyethyl methyl cellulose	T	P	T	T	Cuprite; litharge, hydrocerussite, basic (?) lead acetate
Tylose® MH 50 G4	Kremer (Shin Etsu)	09.2021	Hydroxyethyl methyl cellulose	P	P	P	P	
Tylose® MH 300	Kremer	?	Hydroxyethyl methyl cellulose	P	P	P	P	
Tylose® MH 300 Klebstoff	Klug Conservation	?	Hydroxyethyl methyl cellulose	P	P	P	P	
Tylose® MH 300 P2	Kremer	09.2021	Hydroxyethyl methyl cellulose	P	P	P	P	
Tylose® MH 1000 P2	Clariant	12.1997	Hydroxyethyl methyl cellulose	P	P	P	P	
Tylose® MH 1000 P2	Kremer	09.2021	Hydroxyethyl methyl cellulose	P	P	P	P	
Tylose® MH 30000 YP4	Kremer (Shin Etsu)	09.2021	Hydroxyethyl methyl cellulose	T	P	T	T	Cuprite; massicot, hydrocerussite, lead formate
	Kremer (CP Kelco)	09.2021	Sodium carboxymethylcellulose	P	P	P	P	
Tylose® C6000	Kremer (Höchst)	?	Sodium carboxymethylcellulose	T	P	P	T	Hydrocerussite, massicot, anglesite

Blanose® 7M65	Deffner (Ashland)	09.2021	Sodium carboxymethylcellulose	P	P	P	P	
Blanose® 7M31 CF	Aqualon	1992	Sodium carboxymethylcellulose	P	P	P	P	
Blanose® 7LF	Aqualon	1992	Sodium carboxymethylcellulose	T	P	P	T	Hydrocerussite
Blanose® 7H4Xf	Aqualon	1992	Sodium carboxymethylcellulose	T	P	P	T	Anglesite
Blanose® 12M31PD	Aqualon	1992	Sodium carboxymethylcellulose	P	P	P	P	
Walocel CRT 10000 (9A)	Dow Wolff Cellulosics	?	Sodium carboxymethylcellulose	P	P	P	P	
Cellulose acetate	Eastman	09.2005	Cellulose acetate	F	P	T	F	Cuprite, tenorite, litharge, hydrocerussite
Arbocel® BWW 40	Kremer	12.1997	Pure cellulose fibres	T	P	T	T	Tenorite; massicot, hydrocerussite, basic lead acetate
Kollotex® AC 1250	Deffner (Avebe)	09.2021	Hydroxyethyl starch	F	P	T	F	Cuprite, tenorite; massicot, plumbonacrite, basic lead acetate
Plexigum® N80	Röhm	?	Methyl acrylate/ethyl methacrylate Copolymer (CP)	T	P	T	P	Cuprite
Plexigum® N742	Röhm	?	Methyl methacrylate/poly-n-butyl methacrylate CP	F	T	T	F	Cuprite; tenorite; massicot, hydrocerussite, basic lead acetate
Plexigum® P26	Röhm	?	Poly-iso-butyl-Methacrylate Polymer	P	P	P	P	
Plexigum® P28	Röhm	?	Poly-iso-butyl-Methacrylate Polymer	P	P	P	P	
Plexigum® P675	Röhm	01.2011	Poly-iso-butyl-Methacrylate Polymer	P	P	P	P	
Degalan® PQ 611 N	Evonik	?	Poly-iso-butyl-Methacrylate Polymer	P	P	P	P	
Paraloid B67	Röhm & Haas	?	Isobutyl-Methacrylat Polymer	T	P	T	P	Tenorite
Acryloid B72	Röhm & Haas	?	Methyl acrylate/Ethyl methacrylate CP	P	P	P	P	
Plextol® D 498	Röhm	09.1989	Dispersion Butyl acrylate/Methyl methacrylate CP	T	P	T	T	Cuprite, tenorite; massicot, hydrocerussite
Plextol® D 541	Röhm	?	Dispersion Iso-Butylmethacrylate	T	P	T	T	Tenorite; litharge, plumbonacrite
Plextol® D 360	Röhm	01.1985	Dispersion Butyl acrylate/methyl methacrylate CP	T	P	T	T	Tenorite; litharge, plumbonacrite
Plextol® B 500	Röhm	01.1985	Dispersion methyl methacrylate/ethyl acrylate CP	T	P	T	T	Tenorite; massicot, plumbonacrite, basic lead acetate
Primal WS 24	Kremer	10.2017	Dispersion n-butyl methacrylate	T	P	T	T	Cuprite, tenorite; litharge, hydrocerussite

Primal AC 33	Kremer	11.2002	Dispersion methyl methacrylate/ethyl acrylate CP	T	P	T	T	Cuprite; litharge, hydrocerussite
Lascaux Transparentlack 2-UV matt	Deffner (Lascaux)	11.2021	Acrylic dispersion, UV stabilizers	T	P	T	T	Cuprite, tenorite; massicot, litharge, hydrocerussite
Lascaux Transparentlack 2 matt	Deffner (Lascaux)	11.2021	Acrylic dispersion	T	P	T	P	Cuprite, tenorite
Lascaux Transparentlack 1-UV glanz	Deffner (Lascaux)	11.2021	Acrylic dispersion, UV stabilizers	T	P	T	T	Tenorite; massicot, litharge, hydrocerussite
Verdicker K 15	Kremer	29.10.2021	acrylic dispersion, methacryl acid, ethylacrylat	T	P	T	T	Basisches Bleiacetat, Cuprit, Tenorit
Verdicker ASE	Kremer	29.10.2021	acrylic copolymer	T	P	T	T	Lithargit, Massicot, Tenorit, Cuprit
Schlussfirnis Schmincke	Schmincke	27.10.2021	acrylic resin, aldehyde resin, stand oil, mineral turpentine	T	P	P	T	Lithargit
Anlegemilch	Kremer	29.10.2021	acrylic dispersion, Naturlatex	T	P	T	T	Cuprit, Basisches Bleiacetat, Lithargit
Polyurethan Dis 52	Kremer	29.10.2021	polyurethan dispersion	T	P	T	T	Cuprit, Tenorit, Lithargit
Polyurethan Dis 61 PC	Kremer	29.10.2021	polyurethan dispersion	T	P	T	P	Tenorit, Cuprit
Aquazol 500	Kremer	29.10.2021	Poly(2-ethyl-2-oxazoline)	T	P	P	T	Lithargit
Regalite® R101	Hercules	08.1998	Hydrocarbon resin	P	P	P	P	
Regalite® R125	Hercules	12.1998	Hydrocarbon resin	P	P	P	P	
Regalite R1090	Kremer	29.10.2021	Hydrocarbon resin	P	P	P	P	
Regalite R1125	Kremer	29.10.2021	Hydrocarbon resin	P	P	P	P	
Regalrez® 1094	Hercules	1995	Hydrocarbon resin	P	P	P	P	
Regalrez® 1126	Kremer	29.10.2021	Hydrocarbon resin	P	P	P	P	
Karboresin T115	Hoechst	04.01.1965	Hydrocarbon resin?	F	P	T	F	Cuprite; massicot, litharge, basic lead acetate, hydrocerussite, plumbonacrite
Laropal® A81	BASF	?	Urea-aldehyde condensation resin	F	P	P	F	Plumbonacrite, massicot
Laropal® A101	BASF	?	Urea-aldehyde condensation resin	T	P	P	T	Litharge, Hydrocerussite
	BASF	?	Polycyclohexanone resin	P	P	P	P	
Ketonharz	BASF	04.1963	Polycyclohexanone resin?	T	P	P	T	Litharge, massicot, hydrocerussite
Ketonharz N	BASF	24.01.1968	Polycyclohexanone resin	T	P	T	P	Cuprite, tenorite
AW2 Harz	BASF	?	Polycyclohexanone resin	T	P	T	T	Cuprite; massicot, litharge, basic lead acetate, hydrocerussite
AW2 Harz	BASF	1955	Polycyclohexanone resin	P	P	P	P	

AW2 Harz	BASF	1963	Polycyclohexanone resin	T	P	P	T	Litharge, Hydrocerussite
MS2A Harz	Laporte	?	Polycyclohexanone resin	P	P	P	P	
Polystyrol LG	BASF	26.04.1953	Polystyrene	T	P	T	P	Cuprite, tenorite
Weichmacher 1650	Kremer	29.10.2021	synthetic rupper Styrol-Ethylen/Butyl-Styrol	P	P	P	P	
ELVAX 150W	Dow	08.2021	Ethylenvinyl acetate, W amide additive, BHT antioxidant	F	P	T	F	Tenorite; massicot, litharge, hydrocerussite, basic lead acetate
ELVAX 240A	Dow	08.2021	Ethylenvinyl acetate, BHT antioxidant	F	P	T	F	Tenorite; litharge, hydrocerussite, basic lead acetate
BEVA®371 Film	?	?	Ethylenvinyl acetate & additives	F	P	T	F	Tenorite; hydrocerussite, basic lead acetate
BEVA® Gel	Deffner	11.2021	Dispersion Acryl/EVA, thickener	F	P	T	F	Cuprite; massicot, hydrocerussite, basic lead acetate
BEVA® D-8 S Dispersion	Deffner	11.2021	Dispersion EVA	F	P	T	F	Tenorite; litharge, hydrocerussite, basic lead acetate
Mowilith® 20	Kremer (Hoechst)	?	Polyvinyl acetate	F	P	P	F	Massicot, hydrocerussite, basic lead acetate
Mowilith® N	I.G. Farbenindustrie Aktiengesellschaft	?	Polyvinyl acetate	F	P	T	F	Tenorite; massicot, hydrocerussite, basic lead acetate
Mowilith® NN	I.G. Farbenindustrie Aktiengesellschaft	?	Polyvinyl acetate	F	P	F	F	Tenorite, basic copper acetate; massicot, plumbonacrite, basic lead acetate
Mowilith 35/73	Farbwerke Hoechst AG	?	Polyvinylacetate/dibutyl maleate copolymer	F	P	F	F	Cuprite; plumbonacrite, lead acetate trihydrate, basic lead acetate
Mowilith® D	Hoechst	11.1996	Polyvinyl acetate dispersion	F	P	F	F	Cuprite, tenorite, copper acetate monohydrate; lead acetate trihydrate
Mowilith® DM1	Hoechst	11.1996	Polyvinyl acetate/maleate copolymer dispersion	F	P	F	F	Cuprite, tenorite, copper acetate monohydrate; massicot, basic lead acetate
Mowilith® SDM 5	Kremer	10.1998	Polyvinylacetat/n-butylacrylat Copolymer	F	P	F	F	Cuprite, tenorite, copper acetate; lead acetate trihydrate
Mowilith® DM1	Clariant	12.2000	Polyvinyl acetate/maleate copolymer dispersion	F	P	F	F	Tenorite, copper acetate monohydrate; massicot, basic lead acetate, lead acetate trihydrate
Mowilith® D50	Celanese	08.2013	non-plasticized, aqueous vinyl acetate homopolymer dispersion	F	P	F	F	Cuprite, copper formate; massicot, hydrocerussite, basic lead acetate
Vinnapas® H 65	Wacker polymers	02.2011	Polyvinyl acetate dispersion	F	P	F	F	Cuprite; massicot, basic lead acetate
Vinnapas® DPN 16	Wacker polymers	02.2011	Polyvinyl acetate dispersion	F	P	F	F	Cuprite, tenorite; Hydrocerussite, lead acetate trihydrate
Gamblin PVA Medium	Deffner (Gamblin)	11.2021	Polyvinyl acetate dispersion	T	P	P	T	Massicot, hydrocerussite, basic lead acetate
PAA Size	Gamblin, Deffner	29.10.2021	Polyvinylacetat	T	P	P	T	Lithargit, Bleiacetat, Hydrocerussit, massicot

Polyvinylacetat 20	Kremer	29.10.2021	polyvinyl acetat	T	P	P	T	Lithargit, Plumbonacrite, basisches Bleiacetat
Polyvinylbutyral 30	Kremer	29.10.2021	polyvinyl butyral	P	P	P	P	
Caparol F	?	1962	polyvinylacetat	F	P	F	P	Cuprit, Lithargit, bas. Bleiacetat, Massicot
Caparol Binder	Boesner	2021	polyvinylacetat dispersion	T	P	T	T	Tenorit, bas. Bleiacetat
Beva Isolierfirnis	Kremer	29.10.2021	PVA resins in fast-evaporating aromatic solvents	T	P	P	T	basisches Bleiacetat, Litargit, Massicot
Polyvinylalkohol 4-98 fest	Deffner	11.2021	Polyvinyl alcohol	F	P	T	F	Cuprite, tenorite; massicot, hydrocerussite, basic lead acetate
Mowiol® G04-86	Hoechst	?	Polyvinyl alcohol	F	P	P	F	Massicot, hydrocerussite, basic lead acetate
Mowiol® 4-88	Hoechst	?	Polyvinyl alcohol	F	P	P	F	Massicot, hydrocerussite, basic lead acetate
Mowiol® 4-98	Kremer (Hoechst)	?	Polyvinyl alcohol	F	P	T	F	Cuprite, tenorite; massicot, basic lead acetate
Mowiol® N80-98	Hoechst	31.01.1957	Polyvinyl alcohol	F	P	P	F	Massicot, litharge, hydrocerussite, basic lead acetate
Polyviol® M05/140	Wacker	?	Polyvinyl alcohol	F	P	T	F	Cuprite; massicot, hydrocerussite, basic lead acetate
Lascaux Klebewachs 443-95	Lascaux	?	Microcrystalline wax, syn. polyterpene resin	F	P	T	F	Cuprite, tenorite, copper formate; massicot, hydrocerussite, basic lead acetate
Cosmoloid H 80	Kremer	11.2021	Microcrystalline wax, acid free	P	P	P	P	
TeCero-Wachs® 30222	Tromm	?	Microcrystalline wax	P	P	P	P	
TeCero-Wachs® 3534 F	Deffner (Tromm)		Partly saponified microcrystalline wax	T	P	T	T	Cuprite, tenorite; massicot, litharge, hydrocerussite
TeCero-Wachs® 30410	Deffner (Tromm)		Microcrystalline wax	P	P	P	P	
Te Cero Wachs 30201	Deffner	27.10.2021	microcrystalline wax	P	P	P	P	
Sasolwax 3971	Sasol	?	Microcrystalline wax	P	P	P	P	
Sasolwax 4109	Sasol	?	Paraffin wax	P	P	P	P	
Sasolwax 5403	Sasol	?	Paraffin wax	P	P	P	P	
Sasolwax 6403	Sasol	?	Mixed wax	P	P	P	P	
L-Wachs	BASF	15.10.1954	Processed montan wax	F	T	T	F	Cuprite; litharge, basic lead acetate, hydrocerussite
S-Wachs	BASF	10.1954	Oxidized, processed montan wax	F	P	T	F	Tenorite; litharge, plumbonacrite, lead acetate?
V-Wachs	BASF	10.1954	Polymerized fatty alcohol derivate (Wachsalkohol)	T	P	P	T	Litharge, plumbonacrite
ES-Wachs	BASF	10.1954	?	T	P	T	T	Cuprite, tenorite; plumbonacrite
Wachs W	Hoechst	01.1965	Wax derived from hydrated fat	P	P	P	P	
Wachs C	Hoechst	01.1965	Amide wax	T	P	T	T	Tenorite; litharge, hydrocerussite

Aerosil® 200	Wasserfuhr	?	Hydrophilic fumed silica	P	P	P	P	
Acematt	Kremer		amorphous silica	P	P	P	P	
Syton X 30	Kremer		silica dispersion	P	P	P	P	
Syton W 30	Kremer		silica dispersion	P	P	P	P	
Stabiltex olive green	Plastok Associates Ltd.	05.2021	Polyester fabric	P	P	P	P	
Blankophor R extra	Farbfabriken Bayer AG	?	stilbene isothiosulfonic acid (SITS)	T	P	T	P	Cuprite
HS2A	?	?	?	T	P	T	T	Tenorite; litharge, hydrocerussite
Magnesium nitrate hexahydrate	Merck	11.2021	Magnesium nitrate hexahydrate for analysis	P	P	P	P	
Potassium carbonate	Merck	11.2021	Potassium carbonate for analysis	P	P	P	P	
Magnesium chloride hexahydrate	Merck	11.2021	Magnesium chloride hexahydrate for analysis	F	P	F	P	Cuprite
Sodium chloride	Merck	11.2021	Sodium chloride for analysis	P	P	P	P	
Copper II Oxide	Emsure®	26.10.2021	copper II oxide for analysis	P	P	P	P	
TP_01 Holz Baumeister	-	?	Hardboard	T	P	P	T	
TP_02 Holz Baumeister	-	?	Hardboard	T	P	P	T	