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Historical recipes for preparatory layers for oil paintings in manuals, manuscripts and handbooks in North West Europe, 1550-1900: analysis and reconstructions

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Appendix 23 List of suppliers of materials for reconstructions

23.1 Materials employed for reconstructions

23.1.1 Materials employed for animal glue sizing layer reconstructions

Distilled water: Instituut Collectie Nederland, Gabriël Metsutraat 156, Amsterdam

Millipore water: Millipore water

ICN water purification:

De-ionizing column, L2 Lab-ion

Lab-in gmbh + Co. KG

Birkenstr. 3, D-97892

Kreuzwertheim

Tel: 09342/7842

Millipore Simplicity™ water purification system

Test results: resistivity

18.2 MΩ-cm at 25° C

TOC 15 ppb

Microorganisms \leq 1 cfu/ml

Particles < 1/ml

Alum tawed goatskin, parchment clippings of calf and sheep: William Cowley Parchment and Vellum Works.

Lead white: lot 2 # 7, water washed June 2005: made by Jeff Seynaeve, Oostende, Belgium.

Chalk: Omya 'Trial 1981/1', no grinding or flow agents: Omya International AG

Linseeds, HART Project seed lot # 14, Electra: Flevo Vlas and Loonwerk B.V.

Jute canvas: no. 17, 5.5 x 6 threads/cm² : S.I. Zwartz B.V.

Open weave linen: L 516, 11.5 x 12 threads/cm² : Kremer Pigmente GmbH.

Closed weave linen: No. 12, 18 x 20 threads/cm² : V.A. Claessens n.v.

23.1.2 Materials employed for flour paste and starch reconstructions

Zeeuwse witte wheat: Stichting 'Op Goede Gronden'

Oude Ris wheat: Willy Gooiker

St. Jans Rogge (Rye): Stichting 'Op Goede Gronden'

Demineralised water: Kruidvat B.V., purchased in several batches during the washing period at different Amersfoort branches of Kruidvat

Canvas: Brussel linen, Van Beek Art supplies

Distilled water: Ateliergebouw, Hobbemastraat 22, Amsterdam
Ball clay: Furzeyground PR2 sample,⁸²⁶ Furzeyground pit, located south of Wareham, Dorset, UK.
Imerys minerals Ltd.

Lead white: Stack-process, prepared summer 2005, Jef Seynaeve, Oostende, Belgium. Water washed 8 times with distilled water.

Linseeds: HART Project seed lot # 14, Electra: Flevo Vlas and Loonwerk B.V.

Carbon black: crushed charcoal sticks. Charred white willow, Drs. Astrid Smeets, Maastricht.

Sheep parchment: Sheep parchment clippings. William Cowley Parchment and Vellum Works.

Glove leather: Alum tawed goat skin. (tawed with egg substitute). Hewit and Sons Ltd.

23.1.3 Materials employed for lead white decanting reconstructions

Distilled water: Ateliergebouw, Hobbemastraat 22, Amsterdam

Lead white: Stack-process, prepared summer 2005, Jef Seynaeve, Oostende, Belgium.

Linseeds : HART Project seed lot # 14, Electra: Flevo Vlas and Loonwerk B.V.

Vinegar culture: Brouwland, Beverlo, Belgium, purchased 18-9-2010

Sulphite-free organic red wine: Shiraz. Stellar Organics, South Africa. (Imported: Coenecoop Wine Traders B.V.)

pH indicator strip: Macherey-Nagel pH-Fix 0–14

23.1.4 Materials employed for streaky imprimatura reconstructions

Oak panels: Amsterdamsche Fijnhouthandel, Amsterdam, Netherlands

Chalk: Omya Trial 1981/1, received February 2005

Lead white: Stack process, prepared summer 2005, Jef Seynaeve, Oostende, Belgium

Vermilion: Kremer pigmente, (#42000)

Raw umber: Kremer pigmente, (#40610)

Vine black: Kremer pigmente, (#47000)

Turpentine oil: Kremer pigmente, (#70010)

Spike oil: Kremer pigmente, (#73800)

⁸²⁶ Fred Locke, Geologist at Imerys, supplied data on the typical quality of the sample: Wt% SiO₂: 56, Wt% of Al₂O₃: 29, Wt% of Fe₂O₃: 1.70/1.20, Wt% TiO₂: 1.60, Wt% CaO 0.30, Wt% MgO: 0.37, Wt% Na₂O: 0.50, Wt% LOI: 8.20, residue Wt% + 125µ: 0.25, Surface area m²/g: 33, brightness 49, absorption 2.5, contraction 11.00. Email Fred Locke, 19-12-2011.

Gum Arabic: Kremer pigmente, (#63330)
Gum traganth: Kremer pigmente, (#63400)

Mastic resin: Kremer pigmente (#60050)

Charcoal sticks: Charred white willow, Drs. Astrid Smeets

Alum tawed goat's skin, sheep parchment and calf parchment: William Cowley Parchment Works

Pigs skin glue and cow glue: Shanghai Shuangfeng Bone Glue and Gelatin Co. Ltd via Amstel Products B.V.

Eggs: Organic free range eggs, "biologische eieren, reg.nr. NL-203, 6858.163601.06, Albert Heijn, Amsterdam

Linseeds: Electra seeds, Flevo Vlas and Loonwerk

Turpentine oil in mastic and copal varnishes: Portugese turpentine, gezuiverd, Van der Linde B.V.,

Litharge: Lead(II)oxide, powder < 10 microns, 99.9%, Sigma-Aldrich Co. Ltd.

Mastic varnish: Chios mastic and turpentine oil, Prepared by L. Carlyle in 1999

Copal varnish: Kauri copal, linseed oil (Kremer cold pressed), turpentine oil, Prepared by L. Carlyle in 1993

23.2 Suppliers

Albert Heijn, Amsterdam Museumplein branch
Van Baerlestraat 33-A
1071 AP Amsterdam
The Netherlands

Aldrich Chemical Company Inc
Milwaukee, Wis 53233
U.S.A.

Amstel Products B.V.
Burg. Stramanweg 63
1191 CX Ouderkerk aan de Amstel
The Netherlands

Amsterdamsche Fijnhouthandel
Minervahavenweg 14
1013 AR Amsterdam
The Netherlands
+31 (0)206882100

/De/ Bonte Hen
Historical Oil Mill on the Kalverringdijk (reconstructed 1973-78)
Zaanse Schans, Zaandam
Postbus 3
1540 AA Koog aan de Zaan
The Netherlands
Tel.: +31 (0)75 621 51 48

Brouwland
Korspelsesteenweg 86
3581 Beverlo
Belgium
Tel.: +32 (0)11 401408
sales@brouwland.com

Claessens
V.A. Claessens N.V.
Molenstraat 47
8790 Waregem
Belgium
Tel: +32 (0)56 60 20 25
info@claessens-va.be
contact: Mr. Philippe Huyvaert, President

Coenecoop Wine Traders B.V.
2742 RC Waddinxveen
The Netherlands

/De/ Kat
Verfmolen De Kat
410

Kalverringdijk 29
1509 BT Zaandam
The Netherlands
Tel: +31 (0)75 621 04 77

Driegen, Ing. J. (contact for Electra seeds 1999, see also under Flevo)
MACOS B.V. Management and Advertising
De Kruisboog 7
8255 GC Swifterbant
Netherlands
Tel.: +31 (0)321 387 946
driegen@worldaccess.nl

Emergo
(Fisher Chemicals)
Postbus 4
1120 AA Landsmeer
Netherlands
Tel: +31 (0)20 4877000

Fisher Scientific Co.
Pittsburgh PA
15219 USA

Flevo Vlas Loonwerk B.V.
Eggestraat 41
8303 AB Nagele
The Netherlands
Contact: Mr. Klaas Bouma (owner)

Gooiker, Willy
Holtweg 4
7384 AG Wilp
The Netherlands
Tel: +31 (0)571-261328

J. Hewit and Sons Ltd.
Kinauld Leather Works
Currie
Edinburgh EH14 5RS
United Kingdom
Contact: Roger Barlee, Director
Email: hewitsales@btconnect.com
Tel: +44 (0) 131 449 2206

Imerys Minerals Ltd.
Furzebrook Road
Wareham, Dorset
BH20 5AR
United Kingdom
Tel.: +44 (0)192 955 8808
Contact: Fred Locke, geologist.

Fred.locke@imerys.com

Kremer Pigmente
Dr. George Kremer, Dipl.-Chemiker
Farbmühle, D-88317 Aichstetten/Allgäu
Germany
Tel: 075 65/ 10 11 or 9 11 20
Email: kremer-pigmente@t-online.de
<http://www.kremer-pigmente.com>

Kruidvat Retail B.V.
Nijborg 17
3927 DA Renswoude
The Netherlands
www.kruidvat.nl

Merck Eurolab nv/sa
Geldenaaksebaan 464
B-3001 Leuven
Belgium
Tel: +32 (0) 16 385 011

Macherey Nagel
D-52348, Düren
Germany

Omya International AG
Baslerstrasse 42
CH-4665 Oftringen
Switzerland
Contact: Detlef Gysau
Applied Technology Services
Paints, Coatings and Adhesives
detlef.gysau@omya.com
<http://www.omya.com>

Sachtleben Chemie GmbH
P.O. Box 170454
D-47184 Duisburg
Germany
<http://www.sachtleben.de>
Contact: Frank Bekhuis
Technical Account Manager
NL-2288 EG Rijswijk
The Netherlands
Treubstraat 13 A/B
Tel: 31 (0) 70/3 1922 19
fbekhuis@sachtleben.de

Seynaeve, Jef Atelier
Nieuwedokstraat 44

8400 Oostende
Belgium

Shanghai Shuangfeng Bone Glue and Gelatin Co. Ltd
818 Xinhua Road
Sanlin Town
Pudong Shanghai
China 200124
Tel: 5 841 0176
glue_gelatin@hotmail.com
<http://www.shshuangfeng.com>

Sigma-Aldrich Company Ltd.
The Old Brickyard
New Road
Gillingham Dorset SP8 4XT
ukorders@sial.com

Sigma-Aldrich Chemie GmbH
Riedstr 2
D-89555, Steinheim
Germany
Tel: +49 (0) 732 9970

Sigma-Aldrich Chemie GmbH
Riedel-de Haën
Laborchemikalien GmbH
D-30926 Seelze
Germany
Tel: ++49 (0) 513 78238-0

Stellar Organics
P.O. Bos 4
Klawer 8145
South Africa
+27 (0)73 471 1261
<http://www.stellarorganics.com>

Stichting 'Op goede gronden'
Wagenaarstraat 12
4351 BC Veere
The Netherlands
Tel. +31 (0)118 627 930
<http://www.stichtingopgoedegronden.nl>
Contact: ArndJan van Wijk
ajvanwijk@stichtingopgoedegronden.nl

Van Beek Art Supplies
Stadhouderskade 63-65
1072 AD Amsterdam
The Netherlands
+31 (0)20 662 1670

Van der Linde B.V.
Roengracht 36
1016 NC Amsterdam
The Netherlands
+31 (0)20 624 2791

Vliegenthart BV
P.O. Box 6330
4000 HH Tiel
The Netherlands
Contact: Dhr. R.A. le Rütte

William Cowley Parchment and Vellum Works
97 Caldecote Street, Newport, Pagnell,
Bucks, MK16 0DB
United Kingdom
Tel:+44 (0)1908 610 038
Contact: W. Visscher

S.I. Zwartz B.V.
P.O. Box 312
7570 AH Oldenzaal
The Netherlands
Tel: +31 (0)541 512 843
info@zwartz.nl