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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/cm<sup>2</sup> : S.I. Zwartz B.V.

Open weave linen: L 516, 11.5 x 12 threads/cm<sup>2</sup> : Kremer Pigmente GmbH.

Closed weave linen: No. 12, 18 x 20 threads/cm<sup>2</sup> : 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,<sup>826</sup> 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)

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<sup>826</sup> Fred Locke, Geologist at Imerys, supplied data on the typical quality of the sample: Wt% SiO<sub>2</sub>: 56, Wt% of Al<sub>2</sub>O<sub>3</sub>: 29, Wt% of Fe<sub>2</sub>O<sub>3</sub>: 1.70/1.20, Wt% TiO<sub>2</sub>: 1.60, Wt% CaO 0.30, Wt% MgO: 0.37, Wt% Na<sub>2</sub>O: 0.50, Wt% LOI: 8.20, residue Wt% + 125µ: 0.25, Surface area m<sup>2</sup>/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](mailto: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](mailto: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](mailto: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](mailto: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](mailto: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](mailto:kremer-pigmente@t-online.de)  
<http://www.kremer-pigmente.com>

Kruidvat Retail B.V.  
Nijborg 17  
3927 DA Renswoude  
The Netherlands  
[www.kruidvat.nl](http://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](mailto: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](mailto: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](mailto:glue_gelatin@hotmail.com)  
<http://www.shshuangfeng.com>

Sigma-Aldrich Company Ltd.  
The Old Brickyard  
New Road  
Gillingham Dorset SP8 4XT  
[ukorders@sial.com](mailto: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](mailto: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](mailto:info@zwartz.nl)