



#### OUR VISION 1982

We set out our dream of the good life. As unemployed self-employed people suffering from illness, we were forced to find a way of life that would ensure sustainable, economic, long-term development. Life-balance. **But how?** 





#### UTVECKLING ELLER AVVECKLING?



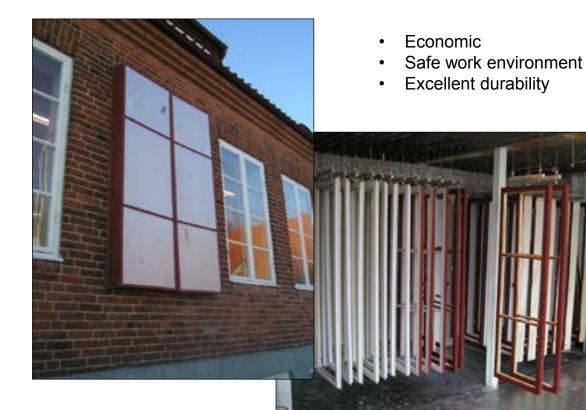
Trelleborg byggår 1910 Fönsterbyte 1960-tal

willuows after 10 years

SP-Fönster efter 15 år Snickarens efter 150 år



#### RESTORATION ALL YEAR ROUND WITH TEMPORARY WINDOWS \_\_\_\_\_





#### RESTORATION ALL YEAR ROUND



KLINTEHUS YSTAD 1860 – 1910 Restored winter 1987





#### INNOVATIONS – TECHNOLOGY





Developing different methods for removing putty, paint & timber technology



#### • • • PUTTY LAMP & SPOT HEATER



The spot heater works with long-wave infra-red light for paint stripping.

The putty lamp work with short-wave infra-red light to soften hard putty.

Linseed Olil Wax will speed up the process.





#### SIMPLE TOOLS







#### 33 YEARS OF WINDOW CRAFTSMANSHIP

#### 6 EARTH TO SPIRIT



Hans and Sonja with students 1994

# Window craftsmanship Old and new technology hand in hand

## Seeing the window as a whole

A window craftsman is a carpenter, glazier, painter, blacksmith and builder all in one.

He or she commands knowledge of the interaction between the different materials of the window – wood, glass, paint, putty, fittings and plaster – and takes responsibility for the end result.

We have moved the boundaries of what is technically and financially possible.



#### "WARM" OLD WINDOWS

- 1. INNER SASH SEALED
- 2. OUTER SASH WITH CONTROLLED VENTILATION
- 3. LARGE GAP BETWEEN PANES

#### **Action taken:**

Inner sash sealed using a selfadhesive silicone seal in the appropriate model and size.

Outer sash sealed like inner sash but with gaps cut to obtain "controlled ventilation" in harmony with the moisture balance of the house.





### CAUSES OF CONDENSATION

#### Condensation due to

- Unsealed rebates
- Unsealed inner sash
- Combination of 1 & 2
- Lack of ventilation between the glass - sashes painted over
- Deep set windows
- > Poor general ventilation





## Measurement tolerances between frame and sash:

- Estimate at least half the rebate
- Measurement tolerance at least the thickness of a ruler (approx. 2-3 mm)

## Why?

- The window must be able to be opened
- Room for future maintenance
- Break capillary action
- Avoid condensation problems





#### RENOVATING AND UPGRADING WINDOWS

#### Research collaboration with Lund University Faculty of Engineering Building construction theory, prof. Bertil Fredlund.



**Test window No. 1 1880**Separate double windows with removable inner sash





#### RESULTS OF U-VALUE MEASUREMENTS

(spring 1998)

Action taken:	Year of manufacture			
	1880	1930	1982	
Current condition	2.44	2.55	1.84	•
Renovated	2.07	2.28		

Now I E gloss 4 60

New LE-glass 1.60 1.77

## **Relative improvements**

Renovated 15% 11%

Renovated + LE-glass 34% 31%

Separate 1880

Joined 1930

3-glazed insulating pane 1982







#### ACOUSTICS RESEARCH PROJECT

#### "SILENT" OLD WINDOWS

Research project in partnership with SP-Borås Report 1998:26 Acoustics Christian Simmons

## Results of measurements

Restored windows from 1880

Best in test compared with special noise reduction products on the market!

(separate double windows with removable inner sashes).





#### Why best in test?

- Large gap/air column between panes
- Asymmetric glazing different thicknesses of glass in outer and inner sash
- Solid wood construction
- Two panes
- Divided by muntins and rails
- > Fitted "flush with façade"
- New linseed putty
- > Frame fitted
- Caulking between frame and wall linseed caulking
- Seals glued silicone seals





#### TIMBER QUALITY, PINE

The resin-rich timber does not suit today's production technology and painting systems



#### **Impregnation**

Resin = water repellent 70% of the tree's resin is in the root stock

#### **Pinosylvin**

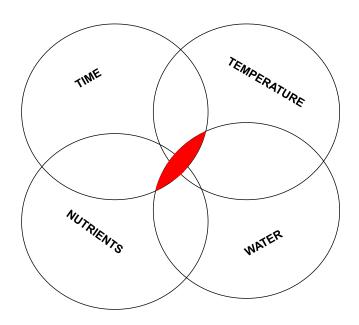
Natural fungicide – protection against rot Erdman's discovery in 1950s (Peter Sjömar's thesis Byggnadsteknik & Timmermanskonst)

#### **Choose good timber**

Harvested in winter
Air dried
Heartwood at least 50%
High resin content
Paint with linseed oil paint









#### TYPES OF MODERN DAMAGE

Wrong surface treatment
Metal coating
Construction damage







#### TYPES OF DAMAGE

Don't be fooled!

Due to a lack of knowledge, windows are often condemned as being rotten.

Our experience shows that damage to windows from 1950 and back in time often has a

different cause.

## Dry cracks

Use Linseed Oil for impregnation

Linseed putty in large cracks.

Paint immediately

Maintenance with Linseed Oil Wax





#### RESTORATION IDEOLOGY



Hand-cranked plane, sixteenth century model

## Principle of authenticity according to ICOMOS – Venice 1964

Authentic craftsmanship (the technology)

Authenticity of materials

Authenticity of design

Authenticity of context

Authenticity of function?

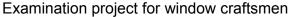


Glue 1920s?



### Krageholm 1726









#### DECISION-MAKING MODEL

According to Boris Schönbeck, Chalmers

## Historic considerations

- Authentic materials
- Blown glass
- Original construction
- Remaining layers of paint
- · Location in façade
- Type of fittings

#### **Modern requirements**

- U-value
- Noise reduction
- · Easy to clean
- · Silicone beading
- Environmental aspects
   when removing paint

#### Questions that must be answered before project start and pricing!

What has to be done? Why? Level of ambition? When?

Restoration? Renovation? Maintenance?

Simple "delay ageing measures"? New windows?

Rolls? Lada? Push bike?



## **Inspection & Diagnosis**

## 33 years' experience of practical work

**Define the AIM of a test window** 

Restoration or simple maintenance?

Coordinate with everyone involved

**Distribution of responsibilities** 

**Choice of Method, Tools, Materials, Aids?** 

**Check against reference window** 

**Draw up a CARE PLAN** 

**Document and learn from mistakes** 

#### STOCKHOLM'S ROYAL PALACE – 18th CENTURY

Investigation 1990 facing inner courtyard

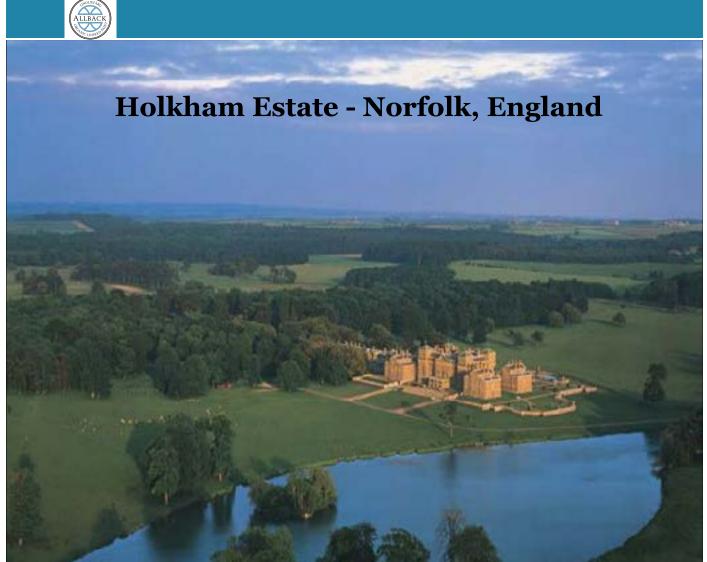


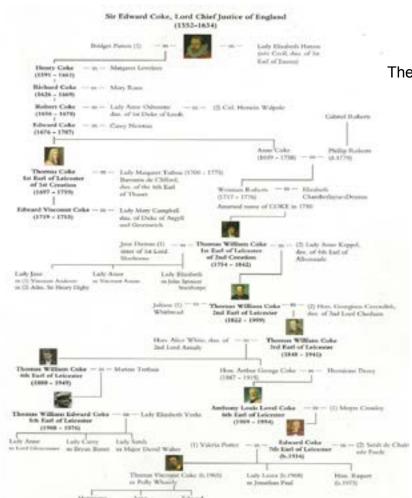


## ● ● ● SWEDISH INSTITUTE - PARIS









The Coke family at Holkham 1552 - 2000



Conservation Officer Michael Knights, Norfolk County Council and Tom Coke, Holkham Estate, England

Windowcraft and Allbäck Linseed Paint to Norfolk, England 2000

#### FROM OUR DOCUMENTATION 1982



**Alkyd paint** inside after 2 years Repaired under guarantee



**Linseed oil paint** inside after 9 years First maintenance 2010



#### PÅLSSONHUSET MALMÖ RESTORED 1987





**After 23 years –** south side. Topping up the putty on one window.

One coat of paint on all sides.





#### MAINTENANCE WITH LINSEED OIL OR LINSEED OIL WAX







#### **AMALIENBORG PALACE – COPENHAGEN 2002**



Copenhagen 1760s
Training project
Working only from the outside on outer sashes and outer frame.



Client and craftspeople agree on the status, action and the end result



## AMALIENBORG PALACE, COPENHAGEN

Utmost historical priority – Renovation – Re-putty with linseed putty







#### AMALIENBORG PALACE – COPENHAGEN 2004

Work on sashes in Ystad, Sweden and in Copenhagen



Work on the sashes in the winter from lift.

Specially built, insulated temporary windows.



## ● ● HOUSING ASSOCIATION BRF MALMÖ 1944

Flats from 1942 1,460 windows 140 balcony doors

#### TECHNICAL MAINTENANCE 1990 - MALMÖ

- Define the problems
- Make test windows
- Decision
- Action
- 1.4 million or 7 million



#### **IMPREGNATE WITH LINSEED OIL**

Impregnate with raw or boiled warmed cleaned lineard oil



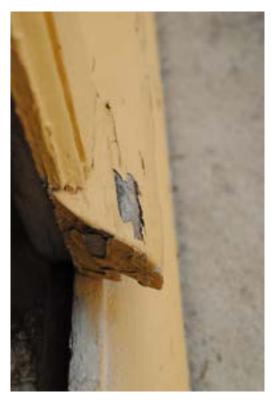
The oil must be well absorbed by the timber.
Use hot air or heat the linseed oil to about 60 degrees. The linseed oil will become as thin as water.
Paint immediately with Linseed Oil Paint





#### CHATEAU DE VERSAILLES – FRANCE 2014

Plastic paint creates problems



Original eighteenth century oak window Better to do nothing





## CHATEAU DE VERSAILLES – FRANCE MAY 2012







#### LINSEED OIL PAINT AROUND THE WORLD AGAIN



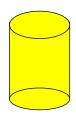








#### WHAT IS PAINT?



- BINDING AGENT (LINSEED OIL, PLASTIC, ALKYD RESIN)
- PIGMENT
- FILLER
- ADDITIVES

GLAZE = THIN PAINT:

EMULSION = LINSEED OIL PAINT + WATER (Interiors and plastered exteriors)

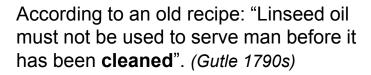
What is to be painted and why? Paint as a decoration, or as a wear layer/for protection?

**Outdoors or In?** 



#### **QUALITY DIFFERENCES OF RAW LINSEED OIL**









#### GOVERNMENT COMMITTEE FOR BUILDINGS RESEARCH

No. 24 *Reports* 1951

## **EXTERIOR PAINTING OF WOOD**

Discussion at conference held 26 February 1951

Quote page 59

"...If the gentlemen do not believe me, I can recommend that you take the most high-class linseed oil you can obtain, for example **degummed**, bleached, cold-pressed linseed oil, that has undergone a number of procedures to remove all traces of pollutants".

#### Stockholm

PAINT GROUPS	SOLVENT	DRY MATTER CONTENT	DRYING TIME	SURFACE
PLASTIC- ACRYLIC LATEX	• WATER • SPIRITS • PLASTICISERS • FORMALIN • MILDEW PROTECTION	About 40%	1 TO 8 HOURS	NO PENETRATION
ALKYD PAINT ARTIFICIAL OIL PAINT	PETROLEUM SPIRITS = PARAFFIN OIL + TOLUENE	About 55%	24 HOURS 24 DEGREES	NO PENETRATION
LINSEED PAINT	NONE	100%	24 HOURS 24 DEGREES	PENETRATION

## Re. turpentine in linseed oil paint

Extract from

Book of Crafts – Painting in 1930 page 138

Under normal conditions, adding turpentine to oil paint is **not necessary** and in some cases **damaging**.

The habit that some have of mixing all oil paints with turpentine is **condemnable.** If this is done for reasons of comfort, so that the paint is easier to apply, it can in many cases be **judged to be bad workmanship.** 



## PATENTSCHRIFT

At 673 434

KLASSE **22**g GRUPPE 3 Repressivelying

Dv. Erich Asser in Hamburg-Wandsbek

int als Erfoder benannt worden.

#### Gustav Ruth Temperol-Werke Chemische und Lackfabriken in Hamburg-Wandsbek

Bindemittel für Amstückfurben

Zweste nom Patont (up 300
Patriciert im Destachen Reicht vom a Oktober 1956 als
Die Hongspanne hat ungefangen im 20. Juli 1952
Tag der Hekunstmachung über die Ernöhung des Patontes a Mitra 1000

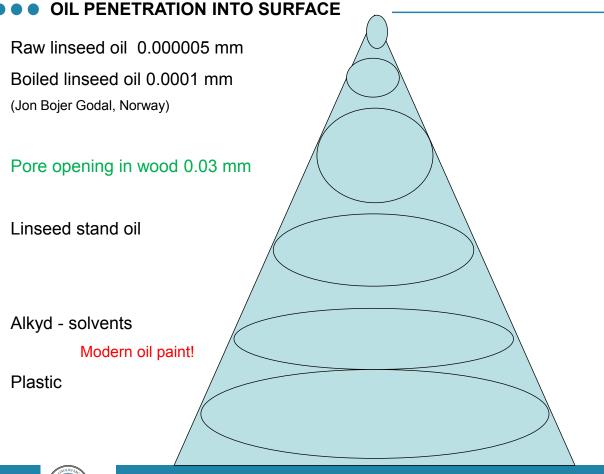
Das Fatest 645 pro hat ein Bindumirol für Asserichiachen zum Gegenstand, welches aus mindemens die Hexabromidstahl zo noch auf weinendem erhitmen Leinöl von der zwei- bit vierfachen Viscosität des Ausgangsmassviah

Erhitzer Leinill von dieser Beschaffenheit bestätzt die Eigersebach, daß sich hierin bei seiner Verwendung als Eindandmei für Antrichfarben unverhähmismätig große Hengin von Fignenttarisotel zu einer gut streichlatun Farbe anteiben latten. Mit einem derzeitgem Bindeminel bössen deskalb erholt liche Mengen Leinill im Vergleich zu gewöhnlichem erhitzen. Leinill uder Standill gespert werden, belogischseite bei Verwendung von Litheponebrausesingel als Fignerer

Diese disparende Wirkung des erhituse

10 noch anfweist und die zwei- his vierfuche Viscotikit des Ausgangsmanerials besitzt, kann intels bedoktelne verden, wenn man ein Leinlit von den nagsgebene Eigenschafter besutzt, das inshetundere in Brisseren Mengen von seinigen Kilogramman in oderens Kessel harpstellt worden ist. Duppgen har sich gereigt, daß die Wickung bei Verwerdung von is großen Ansatz bergemellten Gt zuräckgeht und sogar anshölde, wenn das Gt im einem jesebbessenen Kessel oder in einer Spechbessenen kessel oder in einer Spechb

Webere Versuchs haben nus ergeben, daß die disparenden Eigenschaften des Binde mittels für Ausrichtaben nicht allein von der Erhöltung der Viscosisie, ehne daß die Hexaboumbdaali zu ausenschränen wird, abbings, soodens daß das zur Ansersdaung phötechte Leinkij feruerbin is Gegenwart von Sauersauff





#### COMPARISON LINSEED OIL PAINTS 2011





#### Alcro 0.94 L Allbäck 1 L

Price SEK 330 SEK 310

Drying time 48 hours 24 hours

Coverage 5-7 sq. m/litre 15-20 sq. m/litre

VOC over 300 g/litre less than 1.1 g/litre

Labelling Dangerous for Environmentally

environment friendly

Dilution Aliphatic naphtha No solvents

Price/sq. m. SEK 52 SEK 16

Red Arrow Green Arrow



#### • • LINSEED OIL PAINT ON DEGUMMED LINSEED OIL

#### Linseed oil paint from before 1938 - Exterior

Solvent-free
Natural pigment
Natural signals
Single pot system
Long life time
Storage friendly

Penetrates into the surface Attaches to most surfaces Paint in sunshine Good rust-protection effect on metal Easy maintenance

Low cost – Coverage 15 – 25 sq.m/litre Drying time approx. 24 hours

User friendly - Paint full coverage layer





#### **Emission tests 1999 - 2000**

All products give off very low emissions and are completely free of poisons. Long-term tests and working hygiene tests are carried out at the SP Technical Research Institute of Sweden in Borås and by Tekomo, Eva Nyman.

#### Extract from examination of emissions Allbäck Linseed Oil Paint

Exposure in professional use		
	Hygienic limit values Short term value SVEFF	Measured value
Acetone/Acroleine	1 200 000	42
Formaldehyde	1 200	12

Report 1 in pdf format in Architectural Conservation Journal - website

Emission tests long-term tests		
	Air threshold value (SVEFF)	Measured value
Nonanal	13	0.14
Formaldehyde	150	0.28

Report 2 in pdf Architectural Conservation Journal - website

#### CONSTRUCTION MATERIALS ASSESSMENT

A common system for environmental assessment of construction materials

GREEN ARROW Recommeded

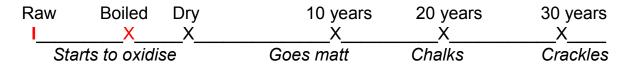
YELLOW ARROW Accepted

RED ARROW Avoided

- www.byggvarubedomningen.se
- www.allbackpaint.com



#### LIFE TRAJECTORY



Boiled linseed oil =
Oxygenated
(Oxidised) Raw linseed oil

Factors affecting oxidation/drying time

Heat approx. 18 – 20 degrees Light Ventilation Air humidity (use dehumidifier)







#### CLEANING AND PAINTING WITH LINSEED OIL PAINT



Clean with Linseed Soap or ammonia.

Rinse and leave to dry. Fill cracks with Linseed Putty.

Paint wood and metal to full coverage with at least three coats out onto the glass.

Use a stiff natural brush or Micro Syntet Brush.



Don't paint over invisible condensation





#### MAINTENANCE WITH THINNED PUTTY



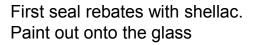


Simple "delay ageing" measure for unsealed rebates and cracks. Brush on, wait until it goes sticky. Wipe off the excess and paint immediately with Linseed Oil Paint.



#### RE-PUTTY WITH LINSEED PUTTY









#### PAINTING WITH LINSEED OIL PAINT





Stir the paint well.

Paint out on the glass at least three coats



#### • • • CUTTING THE EDGES OF THE PUTTY





Moisten the glass with a weak solution of Linseed Soap and water. Cut the rebates to 2 mm over the glass with a scraper and filler.



#### TROUBLESHOOTING



Silicone showing through?
Too greasy a surface?
Chemical paint stripper?
Wrong brush?
Chemicals?
Cold surface?
Damp surface?



Finish the painting!





#### PAINTING METAL AND STORAGE



Paint new zinc-coated window sill or any metal. Clean with Linseed Soap or ethanol. Paint immediately with Linseed Oil Paint on a dry surface.
Surface temperature minimum 14 degrees C



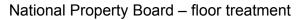
Store brushes hanging in raw linseed oil. Use the oil for impregnation.

Dry the brush and carefully paint out the oil before the next coat. Use the residue for undercoat.



#### LINSEED OIL WAX





Lund University – window maintenance with Linseed oil paint and window cleaner

Water-resistant treatment



#### FULLY MATT EMULSION LINSEED PAINT



For interior wallpaper, brick/plaster, ceilings and wood

**GREEN ARROW** 





**Linus Wall Paint** 





Linseed soap is a saponified linseed oil that can be used for all cleaning apart from in dishwashers.

#### **Rusty fittings:**

- Boil in an approx 50/50 soapwater solution
- Leave to stand overnight
- Rinse and brush clean in water.
- Leave to dry
- Paint with linseed oil paint



#### SAND & PLASTER



**Priming** for high finish: Dilute Chalk with a little Primer.

Brush primed surface. Leave to dry for a few minutes.

Sand and paint immediately.



Plaster with Linus + Pumice flour



#### HOW HAVE WE SUCCEEDED?

#### The power of the vision

Trust in life and each other

Documented practical work

Eco-friendly linseed oil products

New inventions

Old tools and methods

**Respect** and **cooperation** across boundaries between clients, craftspeople, academics, bureaucrats, entrepreneurs and agencies.

Together we can formulate a shared vision for sustainable development in harmony with the earth's resources and sound economics.

#### Circular economy

Read more at <a href="https://www.allbackpaint.com">www.allbackpaint.com</a>
Journal of Architectural Conservation Issue 1 & 2, 2004.





## • • THE ALLBÄCK RESIDENCE YSTAD - SWEDEN



Thank you for listening – Do come and visit us





Background		Date
Owner/contact		
Address		Tel:
Class/Type		Year of construction
Existing construction		
Number of windows	Doors	Storeys
Size of windows	Doors	
N/S/E/W-facing/sketch		
Quality		Condition
Working time available/stages		
Financing – state or private		
Insurance and responsibility		
Authority		
Historic building – Overseer		
Distance from workshop		
Sub-contractor		
Fire safety		
Other craftsmen working		
General condition		
Water damage, leaking balconie	s, guttering	
General ventilation in building		
Insect damage – insurance again	st house longhorn beetle	2
Fittings		Absent
Standard of glazing		Standard of glass
Wall attachment		
Positioning of frames. Outwards	s or inwards	
Wood quality		
Accessibility		
Fit balcony		
Construction windows – special	manufacture	
Furniture and curtains		
Access	K	eys
Cleaning – protective covering		lectricity/lighting
Stores for tools/equipment		
otores for tools/equipment		

#### Notes

- 1 Backman, H., Glass in Houses, Esselte Studium, Lund (1975).
- 2 Ullmann, F., Enzyklopādie der technischen Chemie (Chemical Technical Encyclopaedia), Urban & Schwartzenberg, Berlin (1922).
- 3 Lindgren, F. and Rengman, G. (Eds.), Meyers Varulexicon (Mayers Product Encyclopaedia), 5th ed., Alb. Bonniers, Stockholm (1952).
- 4 Lehman, O., Physikalische Technik, G. Wilhelm Engellmann, Leipzig (1885).
- 5 Schönbeck, B., Stad i Förvanling (City in Change), Byggforskningrådet, Stockholm (1994).
- 6 Becker AB, Nyckel för Målningsbehandlingar enligt Hus AMA 83 kodbeteckning (Key for Painting According to House AMA 83 Codes) (1997).
- 7 Dreijer, C., Jerkbrant, C., and Wikner, C.E., Arkitekter oin Färg & Måleni (Architects on the Subject of Paint and Painting), Byggförlaget (1992).
- 8 Hjort, S. and Patrikson, H., Fuktbalans i målad träpanel enligt CTH-metoden (Moisture Balance in Painted Wooden Panelling According to the CTH-Method), Report P94:4, Chalmers University of Technology (Department of Building Materials), Gothenburg (1994).
- Nylén, P. and Andersson, H., Om Linolja (About Linseed Oil), Linoljeföreningen, Gothenburg (1953).
- 10 Lindberg, B.O., Cetotino Cermini Den okände målaren (Cermino Cermini The Unbotom Decorator), Institutionen för konstvetenskap, Lund (1989).
- 11 Ullmann, op. cit. (1922).
- 12 Gutle, J.C., Grundlig Anvisning att f\u00f6rf\u00e4rdiga Goda Fernisson (Thorough Instructions on How to Produce Good Varnishes), Holmberg J.C., Stockholm (1799).
- 13 Asser, E., Farbe und Lack, Centralblatt 1936. Extract from lecture, Berlin, 14 October 1936.
- 14 Herrman, J., Praktisk handbok i luckering (Practical Manual for Varnishing), 3rd ed., Sigfrid Flodins F\u00f6rlag, Stockholm (1879).
- 15 Andersson, B. and Nylén, P., Förger för indlning av trä mondus (Exterior House Paints), The National Committee for Building Research, Stockholm (1950).
- 16 Andés, L.E., Nyaste handbok für Målare och Lackerare (The Newest Manual for Decorators and Varnishers), 9th ed., Albert Bonniers Förlag, Stockholm (1946).
- 17 Kjollander, K., Färg-Teknisk ordlista (Paint-Technique Dictionary), Sveriges Färghandlares Riksförbund, Stockholm (1931).
- 18 Antony, W. (translated by Knutson, C.), Målarfärger och bindemedel de vanligast förekommande (Paints and Binders the Most Common Ones), Andersson & Co., Boktrycken, Malmö (1926).
- 19 Nyman, E., Emissioner från linoljebaserad färg (Study of Emissions from Linseed-Oil Paints), TEKOMO Byggnadskvalitet AB (Sweden's Research and Test Institute), Borås (2000).
- 20 lbid.
- 21 Thunström, O. and Åström, V., Hantverkets bok måleri (The Craftsman's Handbook Decoration), Lindfors Bokförlag, Stockholm (1934).
- 22 Hector, D.S., Kemisk-teknisk receptbok (Chemical Technical Recipe Book), 5th ed., Björck & Börjesson, Stockholm (1913).
- 23 For example, International Council on Monuments and Sites, International Charter for the Conservation and Restoration of Monuments and Sites (Venice Charter), ICO-MOS, Paris (1964).
- 24 Kemikalieiuspektionen, Giftfri miljö: Miljökvalitetsmål och delmålen (Environment without Dangerous Chemicals: the Quality Goals), 2nd ed., Swedish Chemicals Bureau, Stockholm (2002).



## ALLBÄCK LINSEED OIL PAINT – QUALITY CONTROL

#### FOR HANDLING, USE AND MAINTENANCE

Allbäck Linoljeprodukter AB Product name: Allbäck Linseed Oil Paint

Balkåkravägen 18 Binder: Cleaned, boiled and matured linseed oil 271 91 Ystad, Sweden Thinner: Cleaned boiled linseed oil max 5%

#### Areas of use:

The Linseed Oil Paint contains only cleaned boiled linseed oil, titanium dioxide and chalk. Where required, add max 20% Allbäck pure zinc paint to all colours. The paint is solvent-free and must never be thinned with solvent.

Surface The paint may be used on all clean, dry surfaces, exterior and interior. Max. moisture content

15%. Temperature approx. 5–35°C. May be applied in direct sunlight.

Application Stir the paint thoroughly.

Brush (stiff natural bristles) or spray (high pressure, small nozzle).

Cleaning Ammonia, Chlorine or Allbäck Linseed Soap. Wash hands and brushes with Linseed Soap and

water.

Storage Store **brushes** suspended in raw linseed oil (never in water).

Keeping May be kept indefinitely even below freezing.

Coverage 15–20 m<sup>2</sup> per litre. Each coat should <u>cover the surface completely</u> and be painted in <u>even</u> layers.

Apply the same paint in at least three coats on exterior surfaces. Apply four coats to particularly

exposed surfaces.

Dry matter 100%

Transport No restrictions – **not** hazardous goods

<u>Risk of self-ignition – always soak rags in water and discard!</u>

#### Waste management

No specific restrictions. Paint remnants can be used down to the last drop. Combine any remaining paint and use as primer or mix with about 30% water to make an emulsion for concrete floors and brick walls.

Tins can be discarded as normal metal waste. In Sweden, we have an agreement with REPA on recycling packaging.

#### Technical specifications, safety data sheet and emission tests

These are available on our website www.allbackpaint.com

**VOC** – Allbäck Linseed Oil Paint contains <1.1% VOC

#### Cleaning & Maintenance

Linseed Oil Paint is elastic and thus absorbs more dirt in the initial phase. After a few years, the pigment grains start to fall out and the paint becomes "self-cleaning".

Assuming that the surface has been given three full coats of paint, dirt and mould can be cleaned off using Allbäck Linseed Soap. Avoid too high a pH. Mix the Linseed Soap with water until it foams. Clean the surface using a sponge or a brush. Rinse thoroughly and allow to dry. When the surface turns matt and starts to become chalky, treat with Linseed Oil or Linseed Oil Wax or a coat of Linseed Oil Paint. The need for maintenance varies considerably depending on the original treatment, exposure to the elements and other stresses. Interior surfaces have much longer maintenance intervals and retain their shine for many years. Touch-up work will have a different shine initially.

#### **Comments:**

The results of applying Allbäck Linseed Oil Paint depend on the structure, surface, preparation, temperature, humidity, light and method of application. **Detailed instructions** can be found in the **Little Handbook** on our website <a href="https://www.allbackpaint.com">www.allbackpaint.com</a>.

Always paint a test area first. In the event of a complaint, please include your documentation and quality	
control details.	
Treated surface	

