

Care & Installation

WESTBURY
WINDOWS & JOINERY

Thank you for purchasing Westbury products.

Westbury windows and doors are manufactured in closely controlled factory conditions to exacting standards and need to be stored, installed and maintained with care.

This manual has been put together to ensure the customer has the correct instructions, it is essential these are followed with precision. Failure to do so may invalidate the customers warranty in the unlikely event of a claim.

These Instructions should be passed onto the home owner after site use.

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01

Product care

To keep your windows and doors looking their best, minimal maintenance is required. We recommend some basic maintenance steps.

01.1 HANDLING PRODUCT

Storing, unloading and handling the goods are within the customer's obligation. Delivery documents are stated with the product weights as a guide only to assist managing the correct procedures. Safe lifting of products and suitable personal protective clothing is the customer's responsibility. Our commitment is limited to delivering the goods in a suitable condition to where we consider a safe, hard space nearest to the delivery address.

CHECKING

On delivery of units please make sure they are in good condition and exactly match your order. Contact Westbury immediately in the event of any faults or defects.

STORAGE

- Store in a clear, dry area where goods will not become damaged
- Do not store in areas recently plastered or have moisture in the air
- Ventilation is required on goods intended to be stored for a period exceeding two months. Such products need to be unwrapped individually
- Keep covered to protect from dust and dirt – **must not be wrapped for more than two days**
- Do not store in complete darkness for excessive periods as it may discolour white paintwork
- Should not be exposed to excessive heat or strong sunlight for periods of time
- Windows and door sets need to be stacked vertically on bearers to ensure stability. The surface coatings and glaze systems are designed for vertical, drained or angled surfaces
- Use appropriate space in between products to allow air circulation and to protect ironmongery & fittings

01.2 VENTILATION

When carrying our wet trades where windows and doors have been fitted, it is **essential to ventilate and dehumidify the rooms**. In an enclosed wet atmosphere, water moisture can cause the surface to blister/bubble and potentially cause wood sections to swell. Product surface coatings are not designed to protect the base material against unnatural enclosed damp saturation. **Such damage is not covered by Westbury's warranty.**

Ventilation is also vital to prevent condensation forming on the inside of the glass surface and dehumidification, further airing is strongly recommended until the building is fully dried. This can often take up to six months after building completion.

01.3 AFTER INSTALLATION

Windows and doors need protection from the rest of the building construction; dust etc will affect the finished product, glazing gaskets and may effect ironmongery operation.

Attention is needed for construction operations producing abrasive grit such as angle grinding or rendering which will pit or scratch glass, paint surfaces and ironmongery finishes. **Please note any form of scratch is not covered by the Westbury warranty.**

01.4 CLEANING CARE

- **Glass will scratch easily so avoid any contact with abrasive substances**
- Soften any labels on glass panes with water to remove. Glue sticking to glass can be carefully removed with solvent cleaner. (Follow product instructions)
- Cleaning the units for the first time after installation needs to be done carefully with a clean cloth, little water and minimal mild detergent. Complete with a final wipe with a damp cloth or leather to remove all water from surface. **Ensure no builders grit/dirt is wiped across the glass, abrasives scratch glass**
- External silicone lines on glazing beads should be cleaned with an industrial multipurpose wipe
- Do not hose down or use large quantities of water for cleaning as this is an unnatural application and will create moisture imbalance within the products. Movement caused as a result will not be covered by Westbury Warranty. **Hose piping water under lantern roof vent may/will cause water to ingress**

A close-up photograph of several stacked wooden planks. The wood grain is clearly visible, showing a mix of light and dark brown tones. The planks are stacked in a way that shows their thickness and the way they are joined together, with some visible dovetail or similar joints. The lighting is soft, highlighting the texture of the wood.

Precision

.....

Westbury manufacture a
precision made high quality product.
Longevity is enhanced by correct
care & maintenance.

02

Sash windows

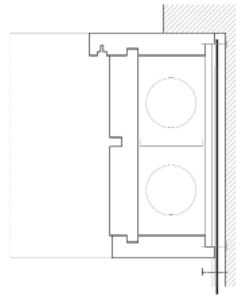
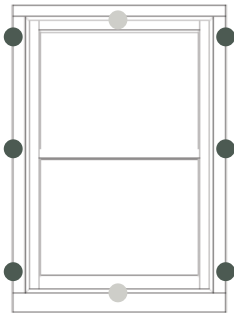
.....
Due to their sliding action sash windows require particular attention to installation.

02.1 INSTALLATION

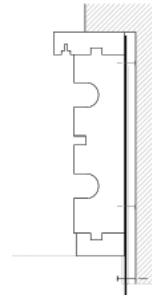
- Install into prepared structural openings ideally 10mm larger than overall frame size (5mm all round)
- Wedge evenly on all sides and under jambs and mullions; adjust to ensure frame is plumb, separate and level
- Provide additional fixings to head and cill on units over 1000mm wide
- Diagonal frame dimensions need to be the same, check product functions correctly
- Do not rest scaffolding on any part of the product
- Building in off products is not-permitted
- Do not use excessive amounts of foam as may deflect jambs
- Do not use as an access point without adequate protection

SASH WINDOW FIXING POINTS

Fig. 1



Fixing Box Sash



Fixing Spring Sash

Galvanised or stainless steel straps fixed to back of frame and inside structure are recommended. Box Sash frames should be wedged at cill hons, under jambs, cill and head.

- Fix jambs 200mm to 300mm from each corner and at maximum 600mm centres ●
- Provide intermediate fixings to head and cill where over 1000mm wide ●
- Do not deflect jambs; screwing should be at wedge packing points
- Do not over tighten fixings points as it will deflect jambs

BOX SASH WINDOW

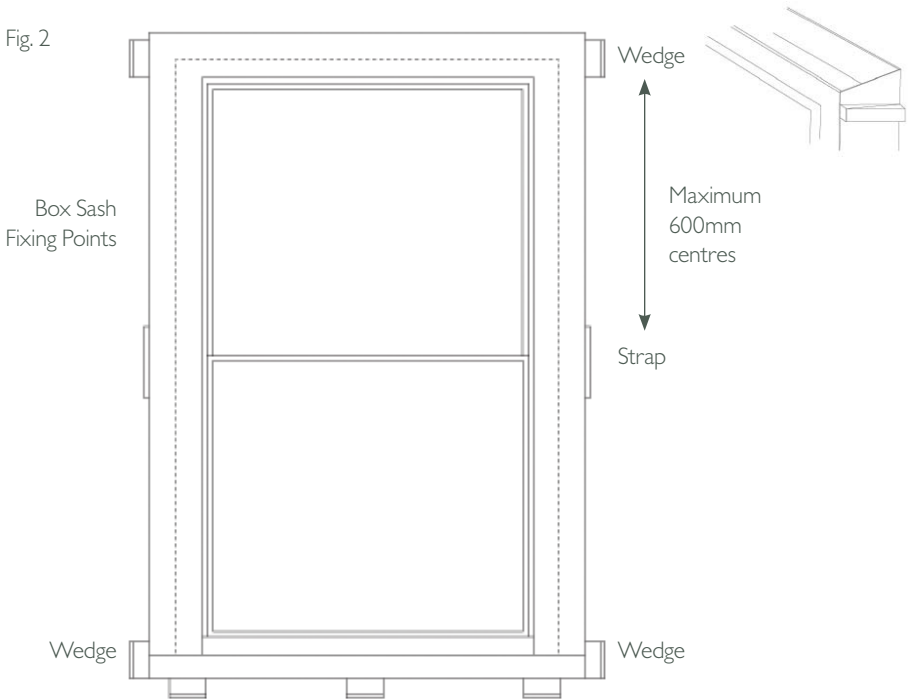
- Wedge at cill horns, under jambs cill and head
- Pre drill the liner for the screw fixings, screw intermediate straps into internal and external liner
- Sliding weights will not function if box void is penetrated with fixings

SEALANT JOINTS

The external joint between frame and structure should be lightly caulked with polyurethane foam. Then pointed with a high quality mastic colour to match the adjoining masonry.

BOX SASH FIXING POINTS

Fig. 2



02.2 BALANCE MECHANISM

DELIVERIES WITH SASHES FACTORY FITTED

Westbury sash windows are fitted with powerful pre-tensioned balances for which no adjustment is possible or necessary.

DELIVERIES WITH SASHES SEPARATE (LARGE HEAVY WINDOWS)

Larger units are delivered with sashes and frames separate, for ease in handling and fixing. Site insertion of sashes is after frame fixing. The right hand side (viewed from inside) staff bead and parting bead is left unfixed for this purpose.

Follow procedure 1-6 for installing each sash

1. Select correct number sashes for frame and remove packing
2. Remove right hand side staff bead and parting bead from the frame
3. Place top sash in closed position. Hook metal brackets as shown in figures 3,4 (sash without horns) and fig 5 (sash with horns). Place parting beads in side jamb, top first (brush facing outside), then bottom parting bead (brush facing inside)
4. Insert bottom sash and rise to open position
5. Screw left and right hand brackets as shown in figure 3 and 4
6. Pin staff bead to secure unit

Fig 3

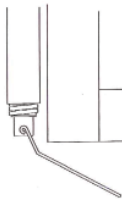


Fig. 4

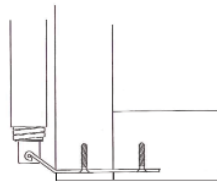
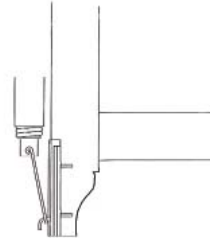


Fig 5



USEFUL TIPS

- Placing a thin piece of material along sash stile can assist to push the sash into place (for example formica)
- Fig 3 & 5. Wire or string threaded through the balance bracket before insertion will assist in pull down of bracket
- Fig 4. Hold one side of bracket with a wood bradawl, whilst screw fixing the second hole
- Finally check operation of both sashes, ensure both sash stops are still fitted to frame in correct position

BALANCE REPLACEMENT

In the unlikely event of failure or possible damage, replacements can be ordered by quoting the information printed on the bottom of the balance sleeve.

BALANCE MAINTENANCE

Sash balance units are lubricated during production process and are designed to be self lubricating during operation. The balances therefore only require minimum maintenance, but we recommend the following annually.

1. Check the balance fixing screw is secure (do not over tighten)
2. Check bottom fixing bracket is secured to the sash and not damaged or distorted in any way
3. Check the balance tube is not damaged in any way
4. Clear any dirt and debris built up at the end of the balance, it can be cleaned with a cloth and re-greased with Castrol spray Spheerol AP2
5. Check travel stops are in place and the sash moves to contact the travel stop without force.
6. Check smooth running of sashes

Please note:

Do not decorate balance tubes

Replacements of site damaged balances are chargeable.

02.3 DELIVERIES WITH SASHES FACTORY FITTED

Box sash windows are fitted with a pre-stretched nylon cord system with a clamp and bespoke sash weights, therefore, no adjustment is necessary.

The sashes may be removed by the following previous instructions, then

1. Unhook the cord grab plate in the sash stiles
2. Carefully release the cord into the frame pulley to enable weight to rest on the bottom of the box – **Do not drop**. Sashes can be heavy and should be handled in accordance with manual handling regulations
3. Repeat for top sash

INSPECTION OF WEIGHTS THROUGH FRAME POCKETS

These are accessed via pocket cut out in the lower half of each jamb. These can be inspected by following the above procedure then with a flat putty knife inserted into bottom part of pocket, prize pocket out allowing access to weights.

02.4 DELIVERIES WITH SASHES SEPARATE (LARGE WINDOWS)

Refer to previous instructions to remove staff end parting bead. Follow procedure 1 to 5 below for installing each sash.

1. Select correct coded sashes for same coded frames and remove packing
2. Remove staff and parting bead from right hand side of the frame as instruction sheet
3. Offer up the top sash outside the frame and engage the outer cord grab plate to each side of the sash. Locate left hand side of sash into the outer sash run, and then ease the right hand side in the outer sash run

USEFUL TIP:

A thin piece of sheet material placed alongside the left hand sash stile can assist in pushing the sash into place avoiding damage to sash seals.

4. Replace parting bead and test operation
5. Repeat procedure for bottom sash replacing the staff beads and testing operation of both sashes

02.5 TROUBLE SHOOTING

Q. Sash does not slide

- A. 1. Check that the frame fixings or architrave fixings have not entered the box void.
2. Check cord clamp is attached correctly.

Q. Sash sliding is noisy or bumpy

- A. 1. Check the frame pocket is fitted flush to frame.

02.6 BALANCE MAINTENANCE

1. Do not coat or decorate the nylon cord and visually check annually to ensure its integrity and operation
2. The pulley plate can be cleaned with a damp cloth, but do not use polishes or abrasive cleaners
3. Pulley wheel grooves should be kept clear of dust and dirt, but must not be lubricated
4. The pulley bearing axle will benefit from a few drops of oil periodically

03

Casement and doorsets

Westbury window and doors will have longevity in both its design and the product itself. Beautiful products built to last.

03.1 INSTALLATION

- Windows and door frames need to be fixed into preformed openings ideally 10mm larger than overall frame size (5mm all round)
- Frames are to be wedged evenly on all sides and adjusted to ensure frame is separate and level
- Fixings for casements windows are recommended as stainless steel or galvanised steel straps fixed to the back of the frames and to inside structure, or screwing and plugging direct to structure through frame. Care must be taken to avoid damage to weather seal and ironmongery
- **Before final fixing check the gap is even and each door and casement can move**
- Deflection of frame will affect the operation of casements and doorsets therefore screwing should be at packing points only and not over-tightened so as to alter the sash to frame clearance from the facing
- If site linking frames or site fixing cill extensions please use a suitable adhesive/sealer in addition to mechanical fixing

FIXING POINTS –WINDOW JAMBS

200-300mm from each corner and at maximum 600mm centres.

FIXING POINTS –DOOR FRAME/JAMBS

Fix jambs in points as close as possible to the hinges without damaging ironmongery with additional fixings to door frames over 2200mm high. All frames over 1 metre wide are to have additional intermediate fixings head & cill.

Packers should be placed at mullion and transom points. **Any trimmed timbers must have end grain sealed without delay** to provide against moisture ingress

- Do not 'build in' products
- Do not use as access in construction without protection
- Do not rest scaffolding on
- Do not use excessive foam

Useful video at <https://youtube.com/c/westburyjoinery>

03.2 HINGE SYSTEM

SASH AND DOOR REMOVAL

To avoid fixing of heavy glazed frames it is possible to temporarily remove sashes & doors as follows:

FRICTION HINGES

Open the sash with the fitting to remain in the frame, release sash screws each side

BUTT HINGE

Fully open each sash or door; remove screws in frame hinges to release. Remove screws in friction stay plate, push plate back to frame. Reverse procedure for replacement and adjust nylon screw for friction stay.

03.3 CASEMENT WINDOW OPERATION

Operation of a casement is by simultaneously pushing the handle button (if fitted) and turning.

Closure of the casement by the same method ensuring espagnolette mushroom heads are fixed on the closed positions. For additional security use the key to lock the handle. There is also a secondary outer night vent position for espagnolette mushroom heads.

03.4 DOORSET OPERATION

Will be dependent upon which type of espagnolette lock is fitted:

CLAW BOLT TYPE:

Single turn of the key will unlock the door, push handle to open the door. If a friction stay is fitted this can be adjusted by tightening screw with a screwdriver. Door can be closed in the normal way then lift the handle to engage the door claw bolts. Turn the key to lock. **NB. Some door types are fitted with auto engage claw mechanisms that does not require lifting of the handle.**

FRENCH DOOR SLAVE:

To open, whilst holding door in closed position, press the small lever just close to half height. Reverse to lock before closing master leaf.

03.5 MAINTENANCE OF OPERATION MECHANISMS

FRICION HINGES:

Do not lubricate

DOOR HINGES:

Lubricate with light oil from time to time.

ESPAGNOLETTES:

Use light grease after installation and from time to time afterwards to the striker plates. A small amount of WD40 to espagnolette locks will help smoothing action.

HANDLES/PLATES:

Clean with soft cloth only, abrasive cleaners must not be used.

NOTE:

Surface finish to handles are not covered by Westbury Warranty.

03.6 FOLDING DOOR INSTALLATION

Folding doors require careful installation in order to maintain the integrity of the sliding mechanism.

The frame head needs to be load bearing and as such should be securely fixed with bolts at minimum 1000mm centres to the structure or steel beam.

The frame cill must remain secure and level at all times so we recommend the cill is anchored to the structure at 1000mm centres, to a secure depth.

Useful video at <https://www.youtube.com/c/westburyjoinery>

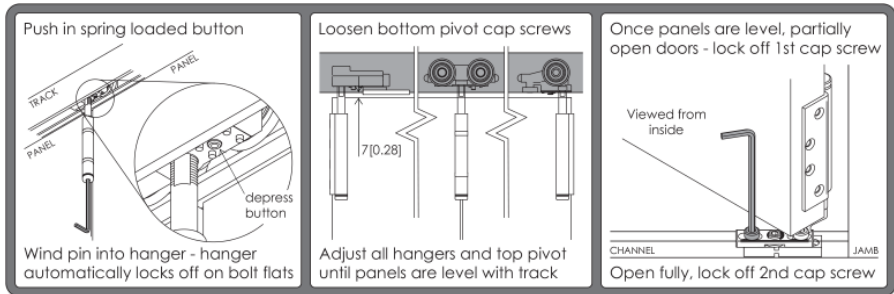
Please contact our office for further information on installing this product if you are not using the Westbury "bi folding" site information service.

Westbury do not warranty any defect in this product caused by the faulty installation.

03.7 FOLDING DOOR ADJUSTMENT

Whilst the doors will have been factory fitted, it is the installer's responsibility to make final adjustments after installation. In accordance with these instructions:

Hinge pin locking mechanism applied to all hangers and top pivot



03.8 CARE & MAINTENANCE OF FOLDING DOORS

Hardware is subject to deterioration from everyday use and from the environment that is in. In particular, it is important that routine maintenance be carried out in harsh coastal or marine environments and industrial applications.

GENERAL

Inspect all fixing bolts for tightness every six months, including those securing brackets. Tighten if necessary. Routinely check for wear and if excessively worn, the part should be replaced.

To help prevent surface corrosion, Brio recommends washing regularly; even stainless steel finishes in coastal environments may show signs of surface corrosion if not washed regularly. Sheltered areas that are not rain washed are particularly susceptible. Wash with soap or mild detergent and warm water followed by rinsing with clean cold water and wipe dry.

As a guide, if a window or door requires washing then wash the hardware, however Brio recommend for marine and industrial environments washing a minimum of every 3 months and 6 months for general environments. In coastal or marine environments, Brio recommends applying a light application of corrosion preventative such as CRC Marine or Inox for Marine, to all surfaces and using a dry cloth to remove excess. When using lubricant or corrosion protective compounds, be careful to avoid the adjacent surfaces and always follow the manufacturer's instructions.

TRACK

Keep track free from obstruction and excessive dirt or water. Visible surfaces should be cleaned using a damp cloth and mild detergent, then wiped dry.

Where fitting to the outside of the building, it is recommended that the appropriate track is specified.

HANGERS & PIVOTS

All hangers are fitted with lubricated ball-bearings or plain bearings, requiring no greasing. If doors 'settle' and door clearance is reduced causing friction, raise the door by the hanger adjustment nuts.

Wash as per the above recommendation and apply light application of corrosion preventative to all surfaces, using a dry cloth to remove excess.

GUIDES

Guide roller and guide channel must be kept clear and free of obstructions.

Wash as per the above recommendation and apply a light application of corrosion preventative to all surfaces, using a dry cloth to remove excess.

ROLLERS

All bottom rails should be free from obstruction and excessive dirt or water. Visible surfaces should be cleaned using a damp cloth and mild detergent, then wiped dry. All rollers are fitted with sealed precision bearings requiring no maintenance.

HINGES

Visible surfaces should be cleaned using a damp cloth and mild detergent, then wiped dry. Apply a light application of corrosion preventative to all surfaces, using a dry cloth to remove excess. Repeat at intervals no greater than 3 months.

FLUSH BOLTS

Visible surfaces should be cleaned using a damp cloth and mild detergent, then wiped dry. Apply a light application of lubrication to internal mechanisms and bolt using a suitable nozzle-spray.

04

Surface coatings

Enhance the longevity of your Westbury
paint finish by regular care.

04.1 TYPES

Your Westbury products have been treated with a spray applied top quality high build water based microporous flexible paint system manufactured by Teknos (UK) Ltd. Our standard finish is three coats which does not require any further initial treatment except “touch up” to any areas that become marked or damaged over time.

You will have been provided with a can of touch up paint with your delivery coloured to match your order for this purpose. The COSHH data sheet is within this document and can be found on **pages 26-28**.

04.2 MAINTENANCE INSPECTION

1. At least once per year, and preferably during the summer period, the finish coat should be lightly washed down with clean water to remove dust, insects and other contaminants that can form a base for algae and fungi growth. A mild detergent solution can be used and then rinsed thoroughly, but never use hose pipes or large quantities of water on the product. We recommend the external silicone glazing caulking is cleaned at this time with an industrial wet wipe

2. The coating surface should be inspected for damage, and repaired using the following procedure:
 - Abrade the damaged area with a fine grade abrasive paper
 - Clean down and wash the abraded area to remove dust, and allow to thoroughly dry
 - Using a good quality synthetic brush or roller, designed for use with acrylic paints; apply a coat of Teknos AQUATOP 2600 in the appropriate colour. Allow to dry for four hours, and then apply a second coat
 - If the damaged area is widespread, it is recommended that the whole frame is lightly abraded and repaired as described above

3. Where the damage has affected the full depth of the coating system, i.e. a deep cut or gouge, the full system requires repair:
 - Abrade the damaged area with a medium and then fine grade abrasive paper
 - Clean down and wash the abraded area to remove dust, and allow to thoroughly dry
 - Prime with Teknos 2901 in the original colour or translucent stain
 - Using a good quality synthetic brush, designed for use with acrylic paints; apply a coat of Teknos 2600 in the appropriate opaque colour. Allow to dry for four hours, and then apply a second coat

4. When carrying out any repair work, do not attempt to paint when the temperature is below 8 degrees Celsius, or if the relative humidity exceeds 85% as the curing and performance of the coating may be impaired

5. Repair products can be obtained from Teknos, and can be stored in frost-free conditions for up to six months in the sealed packaging

04.3 RE-COATING

Do not wait for the coating to break down and do not exceed the maximum durability guide periods before re-coating.

Three coat factory finish applied white opaque finish should have a desired life of 5 to 6 years. This can be extended on Accoya timber. This could be reduced for exposed areas including high elevations and coastal regions. South elevations will always wear quicker than other elevations, and translucent stain finishes have reduced durability of 3 to 4 years.

Always use good quality water based microporous paints to maintain the system. We recommend a semi-gloss Teknos Aquatop 2600 (hand brush version for maintenance) obtained from:

Teknos (UK) Ltd,
Heath Farm Banbury Road,
Swerford, Oxon, OX7 4BN.

T 01608 683 494
F 01608 683 487
E sales@teknos.co.uk
www.teknos.co.uk

PROCEDURE

Apply two coats in accordance with manufacturers' data sheet using a good quality synthetic brush.

- Pay particular attention to horizontal surfaces, cills and bottom bead
- Avoid painting weather strips, balance sleeves, glazing gaskets and ironmongery
- Paint end grain, tops and bottoms of doors
- Do not close or slide sashes onto freshly painted surfaces
- Always follow paint manufacturer recommendations
- Aquatop will adhere to the original Aquatop surface without de-nibbing or sanding
- Rinse out brushes in water after use

04.4 GLAZING

Westbury products are glazed at the factory under controlled conditions to maintain the integrity of the vented and drained system for the sealed unit guarantee. This method also ensures a high degree of security against unwanted de-glazing from outside. Re-glazing should only be necessary in the case of site damage or breakage and we would recommend either:-

1. Re-order of complete new sash from the factory for replacement by a carpenter, or Westbury service engineer. This is often the most cost effective method.
Or

2. Service engineer replaces glass on site.
Or

3. Site glazier, re-glazes the product to Westbury instructions. However in this instance Westbury do not warranty the glass or product function, or grille adhesive

Please remember that new paint may not match the colour of weathered paint.

ROOF GLASS

Should for any reason you have a breakage or break down (windows misting) contact us and will provide a roof plan to ensure a replacement of the correct piece.

05

Product warranty

Thank you for choosing Westbury products, which are manufactured to high and exacting standards.



This Product Warranty is applicable for (up to) ten years on the stated items, from the date goods are ready for delivery and is subject to Westbury Windows & Joinery Ltd Standard Conditions of Sale. The benefit of this Product Warranty shall apply only to the Customer and may only be assigned or transferred with the written consent of the Company.

05.1 WHAT IS COVERED?

This Product Warranty covers the following items as specifically detailed below:

WOOD FRAME & SASH

The Company warrants that all wood components are free from defects of workmanship or materials that would affect performance for a period of (10) ten years.

SURFACE TREATMENT

The Company warrants that standard three coat opaque finished joinery is warranted for (5) five years (excluding natural resin exudation). Accoya faced products are warranted for (8) years. Regular maintenance inspections of at least yearly intervals must be undertaken by the Customer and external surfaces should be cleaned quarterly. For non standard paint finishes and non standard timber profiles, see item 2.2 below.

IRONMONGERY

The Company warrants hinge systems for (10) ten years and handles for a period of (5) five years to be free from functional failure. Surface finishes for handles and catches are not covered by this warranty. Our liability is limited to replacing the parts.

DOUBLE GLAZED UNIT

The Company warrants that glass will comply with Glass and Glazing Federation visual quality standards. The Company warrants that seals on the double glazed units will be free from failure (here "failure" meaning failure of the insulation glass unit resulting in penetration of moisture into the air space and appearance of moisture on the glass inside the air space) for a period of (10) ten years. If failure occurs in the first five years the Company will be responsible for the re-glazing costs (Materials and installation). If the failure occurs in the second five years the Company's obligations hereunder are limited only to supplying the replacement glazing units. The Company reserves the right to supply a replacement whole sash with glass as an alternative to a glass panel.

No other glass defect or phenomena is covered by this warranty. Glass spacer bar codes visual aspect and positioning of toughened glass kite marks are not covered by the warranty. Temporary glass handling marks (e.g. sucker marks) are not covered by this warranty.

05.2 EXCLUSIONS

This warranty shall be void where:

1. Damage to the surface coatings has occurred by physical damage, trimming of timber parts, abrasion (e.g. window cleaners), pet damage, chemical damage, damage caused by bad maintenance or poor design of the building. Stained window frame and door frame cills are not covered by the warranty
2. Where non-standard paint finishes or non standard wood profiles were ordered by the Customer there is no warranty*
3. Damage has occurred as a result of faulty installation (including wrong positioning), repairs, alterations or work processes or pollution from the surrounding area including salt laden air
4. Damage has occurred from excessive cleaning processes or hosing down of product
5. Products have been stored by the Customer in unventilated areas prior to fitting, or have been left unventilated during the construction process
6. Products have been used in swimming pool enclosures without operational mechanical ventilation including enclosed areas with inadequate ventilation and third party fixings or finishes
7. Surface wear has gradually been caused by natural elements including coastal exposure to salt laden air
8. Damage has been caused by external causes outside the control of the Company which shall include, but is not limited to accident, fire, disaster or burglary
9. Products have been exposed to unusual physical conditions
10. Where translucent stain is requested there will be shade differences between products and also within the same product and some manufacturing process may be evident. This is not a defect on the product but a natural occurrence when using translucent stain. All surface treatment warranties are subject to environmental conditions of the site, location and adherence to the care and maintenance procedures stated in the Company's site instructions

05.3 CLAIM PROCEDURE

If you have a valid claim please contact our office in the first instance requesting a claim form.

Any claim by you which is based on any defect in the quality or condition of the Products (referred to in paragraph 1 above) or their failure to correspond with specification shall be notified to us within 7 days from the date of delivery or (where the defect or failure was not apparent on reasonable inspection) within 7 days after discovery of the alleged defect or failure, failing which we shall not be liable under the Warranty.

05.4 VALIDATION

If necessary it rests with the Customer to substantiate the date of despatch of products from the Company, proof of purchase and provide maintenance record. Where any valid claim in respect of any of the Products which is based on any defect in the quality or condition of the Products or their failure to meet specification is notified to us, our sole liability shall be to repair the Products or replace the Products (or the part in question) free of charge at our sole discretion, or refund you the price of the Products (or a proportionate part of the price).

05.5 LEGAL INFORMATION

Your attention is also drawn to the provisions of the Warranty set out in the Company's Standard Conditions of Sale (and below).

The Company shall be under no obligation to offer a Warranty or be under any liability whatsoever:-

1. in respect of any defect in the Products (referred to in paragraph 1 above) arising from any drawing, design or specification supplied by you
2. in respect of any defect arising from fair wear and tear, wilful damage, negligence, abnormal working conditions, failure to follow our instructions (whether oral or in writing), misuse or alteration or repair of the Products (referred to in paragraph 1 above) without our approval or improper or inadequate maintenance by you
3. if the total price for the Products has not been paid for and any monies are owed to the Company by the Customer

The Company shall not be liable under the Product Warranty if the Customer permits persons other than the Company's authorised representatives to effect any replacement of parts, maintenance adjustments or repairs to the Products.

The Company shall not be liable for incidental, indirect or consequential damages of any kind.



MATERIAL SAFETY DATA SHEET

Date: 2008/02/28 Previous date:

1 IDENTIFICATION OF THE CHEMICAL AND OF THE MANUFACTURER, IMPORTER OR OTHER UNDERTAKING			
1.1	Trade name	AQUATOP 2600	
1.2	Use of the chemical See product description		
1.3	Manufacturer, importer, other undertaking	TEKNOS UK Ltd.	
	Address	Unit E1, Health Farm, Banbury Road	
	Post code and post office	Swerford, Oxfordshire OX7 4BN	
	Telephone number	01608 683494	
	Telefax	01608 683487	
	E-mail	safes@teknos.co.uk	
	Information on foreign manufacturer	TEKNOS A/S, Industrivej 19, DK-6580 Vamdrup	
1.4	Emergency telephone	Manufacturer	01608 683494 (material safety data sheets)
2. HAZARDS IDENTIFICATION			
3 COMPOSITION AND INFORMATION ON INGREDIENTS			
3.1 Hazardous ingredients			
CAS No Einescs/EIincs No	Name of the ingredient	Concentration	Warning symbol R-phrases
55406-53-6 259-627-5	3-iodo-2-propylnyl-butyl carbamate	<0,5%	N-Xi-Xn 20-22-41-50
112-34-5 203-981-6	2-(2-butoxyethoxy)ethanol	<0,5%	Xi 36
111-90-0 203-919-7	Ethylidiglycol	1-2,5%	Xi 36
57-55-6 200-338-0	Propylene glycol	<0,25%	
60207-90-1 262-104-4	Propiconazole	<1%	N-Xi-Xn 22-43-60-53
400-830-7	Hydroxyphenylbenzotriazol	<1%	N-Xi 43-51-63
3.1.7 Other information			
T+ = Very toxic, T = Toxic, C = Corrosive, Xn = Harmful, Xi = Irritant, O = Oxidizing, F+ = Extremely flammable, F = Highly flammable, N = Dangerous for the environment, Mut = Mutagenic, Carc = Carcinogenic, Rep = Toxic to reproduction.			
4 FIRST AID MEASURES			
4.1	Special instructions	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious place in recovery position and seek medical advice.	
4.2	Inhalation	Remove person exposed to excessive solvent concentrations to fresh air, keep patient warm and at rest. If breathing is irregular, give artificial respiration or oxygen. Give nothing by mouth. If unconscious, place in the recovery position and seek medical advice.	
4.3	Skin contact	Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart, and seek medical advice.	
4.4	Eye contact	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a proprietary skin cleaner. Apply skin cream. Do NOT use solvents or thinners.	
4.5	Ingestion	Do NOT induce vomiting. If accidentally swallowed obtain immediate medical attention. Keep at rest. Drink water or milk.	
5 FIRE FIGHTING MEASURES			
5.1	Suitable extinguish media	The product is not flammable.	
5.2	Extinguishing media which must not be used for safety reasons	-	
5.3	Special exposure hazards in a fire	-	
6 ACCIDENTAL RELEASE MEASURES			
6.1	Personal precautions	Avoid breathing vapours. Refer to protective measures listed in section 7 and 8. Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Do not allow to enter drains or watercourses. Clean preferably with a detergent; avoid use of solvents.	
6.2	Environmental precautions	If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.	
6.3	Methods for cleaning up	Clean preferably with a detergent; avoid use of solvent. Collect spillage with sand or other absorbent material. Sweep up small amounts with e.g. waste cotton wetted with solvent. Gather waste for destruction as hazardous waste. Wash contaminated area with alkaline washing agent.	

7 HANDLING AND STORAGE	
7.1 Handling	Avoid skin and eye contact. Avoid inhalation of vapour and spray mist. Smoking, eating and drinking should be prohibited in areas of storage and use. For personal protection, see section 8. Always keep in containers made of the same material as the supply container.
7.2 Storage	Observe the label precautions. Store between 5 and 25 degree C in a dry, well-ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorised access. Containers, which are opened should be carefully resealed and kept upright to prevent leakage. Keep away from sources of ignition. Keep away from oxidizing agents, from strongly alkaline and strongly acid materials. Follow national legislation concerning storage.
8 EXPOSURE CONTROLS/PERSONAL PROTECTION	
8.1.1 OEL values	
	ppm
	mg/m3
Propane-1,2-diol (vapour and particulates)	150,0
Hydroxyphenylbenzotriazol	474,0
	1,0 *
8.1.2 Other limit values	OELs are taken from the current version concerning exposure limits, except those marked *, which are assigned by the supplier of the substance.
8.2 Exposure controls	
8.2.1 Occupational exposure controls	The workers must be instructed thoroughly. Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and/or solvent vapours below the relevant occupational exposure limits, suitable respiratory protective equipment should be worn. (See "Personal protection" below).
8.2.1.1 Respiratory protection	If working areas have insufficient ventilation, wear half or totally covering mask equipped with gas filter of type A (brown), when grinding with particle filter of type P2. When spraying wear combined filter AP. In continuous and prolonged work isolating protection (e.g. hood with supply of fresh or compressed air) or motor-driven fan protection is recommended.
8.2.1.2 Hand protection	Use nitril or butyl rubber gloves or 4 H, if the product comes into contact with the skin. Change gloves immediately when first signs of decomposition appear. Always contact the supplier of gloves for information on the breakthrough time and for recommendation of the best glove to the actual work situation.
8.2.1.3 Eye protection	Use safety eyewear designed to protect against splash of liquids.
8.2.1.4 Skin protection	Personnel should wear anti-static clothing made of natural fibre or of high temperature resistant synthetic fibre.
9 PHYSICAL AND CHEMICAL PROPERTIES	
9.1 Physical state, colour, odour	Liquid, coloured, with mild odour
9.2 pH	
9.3 Flash point	Approx. >55 °C
9.4 Explosion limits (vol%):	-
9.5 Relative density (kg/l)	1,0-1,3
9.6 VOC	App. 37 g/l
9.7 Weight% organic solvents	App. 5
9.8 Weight% water	App. 53
10 STABILITY AND REACTIVITY	
10.1 Conditions to avoid	Stable under the recommended storage and handling conditions (see Section 7). When exposed to high temperatures may produce hazardous decomposition products.
10.2 Materials to avoid	Keep away from oxidizing agents, strongly alkaline and strongly acid materials to avoid the possibility of exothermic reaction.
10.3 Hazardous decomposition products	When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide, smoke, or oxides of nitrogen.
11 TOXICOLOGICAL INFORMATION	
11.1 Inhalation	Exposure to solvent vapours in concentrations exceeding the occupational exposure limit values may cause adverse effects such as irritation of the respiratory system and mucous membranes, and may also cause adverse effects on kidneys, liver and the central nervous system. Symptoms of this may be headache, nausea, fatigue, drowsiness and in extreme cases unconsciousness.
11.2 Skin contact	Repeated and prolonged contact with the product may cause removal of natural fat from the skin and may cause non-allergic contact dermatitis. Acrylate components have irritant properties. Prolonged or repeated contact with the skin or mucous membrane may result in irritant symptoms such as redness, blistering or dermatitis. Onset of symptoms may be delayed. Cases of allergic skin reaction have been observed.
11.3 Eye contact	Splashes in the eye may cause irritation and reversible damage.
11.4 Ingestion	Ingestion may cause vomiting, stomach pains and otherwise same symptoms as by inhalation of fumes.
11.5 Other information	There is no data available on the product itself.
12 ECOLOGICAL INFORMATION	
12.1 Ecotoxicity	There is no information available on the ecotoxicity of the product as such.
12.2 Environmental classification	The product has not been classified as dangerous for the environment, but it contains a component/components that is/are classified as dangerous for the environment. See paragraph 3 for detailed information.
12.3 Other information	Paint products must be handled carefully and they may not be allowed to enter drains, watercourses or soil.

13 DISPOSAL CONSIDERATIONS	
13.1 Disposal	The waste is collected and disposed in accordance with local regulations. Liquid waste must be transported to facilities for collecting hazardous waste or to other similar place to be disposed as hazardous waste. Solvent-free, hardened paint and painting waste can usually be taken to a public dumping area. Empty, dry paint containers can usually be taken to public dumping areas or to collection centres for metallic paint packages. EWC (European Waste Code):080112
13.2 Emptying of steel containers	Metal containers that are taken to recycling must be brush dry/empty, which means that they must not contain wet paint. The bottom of the containers must be perforated to ensure that the containers are ventilated.
13.3 Other information	
14 TRANSPORT INFORMATION	
14.1 UN number	-
14.2 Packing group	-
14.3 Land transport	
14.3.1 Transport class	-
14.3.2 Name according to bill of freight	-
14.3.3 Other information	
14.4 Sea transport	
14.4.1 IMDG class	-
14.4.2 Correct technical name	-
14.4.3 Marine pollutant	-
14.4.4 EmS number	-
14.4.5 Other information	
15 REGULATORY INFORMATION	
15.1 Information on the warning label	
15.2 Letter code of the warning symbol and indications of danger for the preparation	
15.1.2 Contains:	
15.1.3 R phrases	-
15.1.4 S phrases	S23: Do not breathe vapour and spray. S51: Use only in well-ventilated areas.
15.1.5 Special phrases	
15.2 National regulations	
15.3 Label no.	4922
16 Other information	
16.1 R phrases from section 3	R20: Harmful by inhalation. R22: Harmful if swallowed. R36: Irritating to eyes. R41: Risk of serious damage to eyes. R43: May cause sensitization by skin contact. R50: Very toxic to aquatic organisms. R51: Toxic to aquatic organisms. R53: May cause long-term adverse effects in the aquatic environment.
16.2 Training advice	
16.3 Restrictions on use	Detailed instructions for use are given on the label or in the data sheet of the product.
16.4 Further information	TEKNOS A/S laboratory (material safety data sheet), tel. +45 76939400 The information contained in this safety data sheet is based on the present state of knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.
16.5 Information which has been added, deleted or revised	

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