

Box sash window specification

ITEM	INFO
Timber Species	Sapele
Exterior Primer	PAGES 2,3,4
Exterior Topcoat	PAGES 5,6,7
Glass (UV rating)	20mm unit. 4mm clear/4mm soft coat/12mm silver spacer argon filled. Meets minimum UV value of 1.6.
Ball bearing pulley	https://www.westwardbuildingservices.com/sliding-sash-hardware/pulleys/ball-bearing-pulleys.htm
Sash pull handle	https://www.westwardbuildingservices.com/sliding-sash-hardware/classic-window-furniture/spb-5-sash-pull.htm
Locking fitch fastener	https://www.westwardbuildingservices.com/sliding-sash-hardware/classic-window-furniture/ffbl-locking-narrow-keep-fitch-fastener.htm
Timber Parting bead	https://www.westwardbuildingservices.com/sliding-sash-hardware/timber-beads/primed-timber-beads/tpb8x25-8x25-primed-parting-bead.htm
Timber Staff bead	https://www.westwardbuildingservices.com/sliding-sash-hardware/timber-beads/primed-timber-beads/tsb20x15-20x15-primed-staff-bead.htm
Perimeter seal	https://www.westwardbuildingservices.com/sliding-sash-hardware/perimeter-seals/perimeter-seals_1/ws05-offset-leg-perimeter-seal-with-pile.htm
Perimeter seal brush pile for parting and staff bead	https://www.westwardbuildingservices.com/sliding-sash-hardware/perimeter-seals/perimeter-seals_1/ws19-5mm-brush-pile.htm
Steel sash weights (Various sizes)	https://www.reddiseals.com/product/sash-steel-weights/

Product Data Sheet



Omnia Prime : Stain Inhibiting Exterior Joinery Primer

Code	Description
8JP/000	Stain Inhibiting Exterior Joinery Primer

Technical Data	A stain inhibiting waterborne Primer ideally suited to spray application, offering excellent isolating power, opacity, durability and build for exterior Joinery applications. This Range is recommended as a Primer under Omnia Colour (Exterior Opaque Topcoat).
Properties	Good adhesion with extractive suppression properties whilst extensively tested to BS 927-3 (Natural Exposure) and BS EN 927-6 (Accelerated Exposure) when used as a primer under Omnia Colour .
Mixing Guidelines	Supplied ready for use (RFU) but can be thinned with water up to a maximum of 5%, if required. Any dilution must be mixed thoroughly. A powered stirrer is recommended.
Handling	Touch Dry: 110 minutes @ 18°C Sandable: 2 to 4 hours @ 18°C. Use 180 or 240 Silicone Carbide paper. Recoatable: 2 to 4 hours minimum @ 18°C Packing Time: Overnight minimum, dependent on conditions.
Cleaning	Water should be used for cleaning equipment after use. Dried/cured lacquer residue can be removed with Acetone (X001) or 2007/100 Gun Cleaner. After use of these solvents it is recommended to flush with X008 – No. 78 Prep Coat/Cleaner and then water to avoid contamination.
Coverage	Approximately 20m ² per 5Lts dependent upon the size, orientation and surface quality of the item being coated.
System Guidelines	Morrells recommends the following guidance for use of this product: Typical Finish: 1. Non-durable timber - pre-treat with Omnia Preserve (Timber Preservative). Not required for durable timber. 2. For timbers prone to staining (#) apply Omnia Prime Pre-Treatment. 3. Treat all end grain with Omnia End Grain Sealer. 4. 1* spray coat of Omnia Prime (Stain limiting Joinery primer) at 152µm wet film. An extra coat may be used if severe staining is seen in the 1st Prime Coat. 5. Two spray coats at 152µm wet film of Omnia Colour. Total Wet film weight, 300µm (~114µm dry film thickness). # - typically Brazilian Mahogany, Idigbo, Iroko, Oak, Redwood, Sapele, Teak,



Morrells Woodfinishes Ltd, Wellington Works, Mill Lane, Woodley, Stockport, Cheshire, SK6 1RN
 Tel: 08705 60 61 62 Fax: 08705 604 604 Email: enquiries@morrells.co.uk Web: www.morrells.co.uk
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	Western Red Cedar and others. Using these products in systems outside the guidelines can lead to immediate and latent problems with the integrity of the finish.
Joinery Guidelines	➤ All design, manufacture, and construction, must conform to the relevant industry standards. ➤ Morrells Practical Guide to Joinery Finishing offers useful information regarding joinery design, coating application, and simple fault finding. If you do not have a copy of this guide we strongly recommend you obtain a copy from us before starting any coating process. ➤ All softwood and non durable hardwood should be treated in accordance with BS8417 2011. Follow the preservative manufacturer's information concerning drying times prior to the application of surface coatings. ➤ Timbers that contain natural oils and extractives must be cleaned with a sharp solvent, such as Morrells Cellulose Thinner (product ref 2007/000), prior to coating applications – please seek our advice concerning the cleaning procedure and Health & Safety considerations. Typical timbers within this category include Iroko, Teak and Oak. ➤ Natural extractives can be released when certain timbers (typically Brazilian Mahogany, Idigbo, Iroko, Redwood, Sapele, Western Red Cedar) are wetted by the application of a coating which can cause staining. For such timbers the use of Omnia Prime Pre-Treatment before Omnia Prime is recommended. ➤ Joinery must be clean, dry and free from any form of contamination. ➤ If appropriate for the timber type used, apply knotting (product ref 3032/000) over each knot to reduce knot staining and resin exudation. ➤ End grain will absorb moisture at a rate many times faster than the longitudinal surface of timber and it is therefore important to ensure that the end grain is sealed. ➤ An application of Omnia End Grain Sealer (product ref 8ES/000) will close the porosity of the timber and reduce moisture absorption. ➤ Timber to be coated should have a maximum moisture content of 18%. Timber with a low moisture content may be subject to movement when exposed to the external environment, and natural humidity levels. For this reason, we do not recommend the use of timber with a low moisture content for external joinery. ➤ American Oak is an example of a timber that is durable but is liable to movement due to low moisture content. We specifically highlight that our products should not be used for the external protection of American Oak. ➤ Check suitability of timber for exterior joinery application prior to commencement of project.
Important Information	➤ This Product is not suitable for Brush application. ➤ In severe cases extractive staining may be observed in the primer coat, if so, a second primer coat can be used to limit transgression into subsequent Topcoats. ➤ Waterborne products should have nominated finishing equipment. ➤ Product should be stored above 5°C and protected from frost. ➤ Optimum application is achieved between 18°C and 22°C with good air movement and ventilation.



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	➤ It is advisable that the suitability of application equipment (guns, pumps and booths) and all associated components (substrates, glues, fillers etc.) should be considered when switching from solvent based to water based finishing systems. ➤ Avoid contact with iron, copper, zinc, aluminum and platinum as these can attack the aqueous polymer. Ensure these metals are not present in finishing equipment. ➤ In scope with 2004/42/EC.
Health & Safety	Reference should be made to the appropriate MSDS for this product, which can be found at www.morrells.co.uk The use of appropriate Personal Protective Equipment (PPE) is recommended. This product is intended for professional use only.

The information provided on this information sheet is based on the best of our knowledge and experience, is given in good faith and should only be regarded as recommendations. No guarantee should be inferred and customers are advised to carry out their own tests under local conditions.

For further technical information contact our Technical Support Team on 0161 406 5300.



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Product Data Sheet



Omnia Colour : Opaque Waterborne Exterior Joinery Topcoat

Code	Description	Code	Description
8W6/000	Gloss	8W3/000	Semi Gloss
		8W/XXXX	Bespoke Colours

Technical Data	A new range of high performance waterborne lacquers ideally suited to spray application, offering excellent clarity, durability and build for exterior Joinery applications. This Range is recommended as a topcoat over both Omnia Prime (Stain limiting Primer) and Omnia Preserve (Wood Preservative).
Properties	This Range has been extensively tested to BS 927-3 (Natural Exposure) and BS EN 927-6 (Accelerated Exposure) for use as an exterior Joinery finish.
Mixing Guidelines	Supplied ready for use (RFU) but can be thinned with water up to a maximum of 5%, if required. Any dilution must be mixed thoroughly. A powered stirrer is recommended.
Handling	Touch Dry: 90 minutes @ 18°C Sandable: 2 to 4 hours @ 18°C. Use 180 or 240 Silicone Carbide paper. Recoatable: 2 to 4 hours @ 18°C Packing Time: Overnight minimum, dependent on conditions.
Cleaning	Water should be used for cleaning equipment after use. Dried/cured lacquer residue can be removed with X001 Fast Thinners or 2007/100 Gun Cleaner. After use of these solvents it is recommended to flush with X008 – No. 78 Prep Coat/Cleaner and then water to avoid contamination.
Coverage	Approximately 20m ² per 5Lts dependent upon the size, orientation and surface quality of the item being coated.
Tinting	Bespoke tints can be matched on request.
System Guidelines	Morrells recommends the following guidance for use of this product range: Typical Finish: 1. Pre-treat timber with Omnia Preserve (Timber Preservative) and Omnia End Grain Sealer. 2. 1 spray coat of Omnia Prime (Stain limiting white primer) at 152µm wet film. 3. Two spray coats at 152µm wet film of Omnia Colour. Total Wet film weight, 300µm (~114µm dry film thickness). Important Note : It is necessary to achieve an overall dry film thickness a minimum of 171 microns. The guidelines for wet film thickness set out in this specification are only meant as a guide and the dry film thickness must always be checked. Using these products in systems outside these guidelines can lead to immediate and latent problems with the integrity of the finish.



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Joinery Guidelines	➤ All design, manufacture, and construction, must conform to the relevant industry standards. ➤ Morrells Practical Guide to Joinery Finishing offers useful information regarding joinery design, coating application, and simple fault finding. If you do not have a copy of this guide we strongly recommend you obtain a copy from us before starting any coating process. ➤ All softwood and non durable hardwood should be treated in accordance with BS8417 2003. Follow the preservative manufacturer's information concerning drying times prior to the application of surface coatings. ➤ Timbers that contain natural oils and extractives must be cleaned with a sharp solvent, such as Morrells Cellulose Thinner (product ref 2007/000), prior to coating applications – please seek our advice concerning the cleaning procedure and Health & Safety considerations. Typical timbers within this category include Iroko, Teak and Oak. ➤ Joinery must be clean, dry and free from any form of contamination. ➤ If appropriate for the timber type used, apply knotting (product ref 3032/000) over each knot to reduce knot staining and resin exudation. ➤ End grain will absorb moisture at a rate many times faster than the longitudinal surface of timber and it is therefore important to ensure that the end grain is sealed. ➤ An application of Omnia End Grain Sealer (product ref 8ES/000) will close the porosity of the timber and reduce moisture absorption. ➤ Timber to be coated should have a maximum moisture content of 18%. Timber with a low moisture content may be subject to movement when exposed to the external environment, and natural humidity levels. For this reason, we do not recommend the use of timber with a low moisture content for external joinery. ➤ American Oak is an example of a timber that is durable but is liable to movement due to low moisture content. We specifically highlight that our products should not be used for the external protection of American Oak. ➤ Check suitability of timber for exterior joinery application prior to commencement of project.
Important Information	➤ This Product is not suitable for Brush application. ➤ The finish reaches its full cure cycle 21-28 days after application. ➤ Early exposure to excessive moisture (before full cure cycle) can cause short-term white spotting which should not persist once the full cure has completed. ➤ It is advisable that the suitability of application equipment (guns, pumps and booths) and all associated components (substrates, glues, fillers etc.) should be considered when switching from solvent based to water based finishing systems. ➤ Avoid contact with iron, copper, zinc, aluminum and platinum as these can attack the aqueous polymer. Ensure these metals are not present in finishing equipment. ➤ Waterborne products should have nominated finishing equipment. ➤ Product should be stored above 5°C and protected from frost. ➤ Optimum application is achieved between 18°C and 22°C with good air movement and ventilation. ➤ Out of scope with 2004/42/EC.



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Health & Safety	Reference should be made to the appropriate MSDS for this product range, which can be found at www.morrells.co.uk The use of appropriate Personal Protective Equipment (PPE) is recommended. These products are intended for professional use only.
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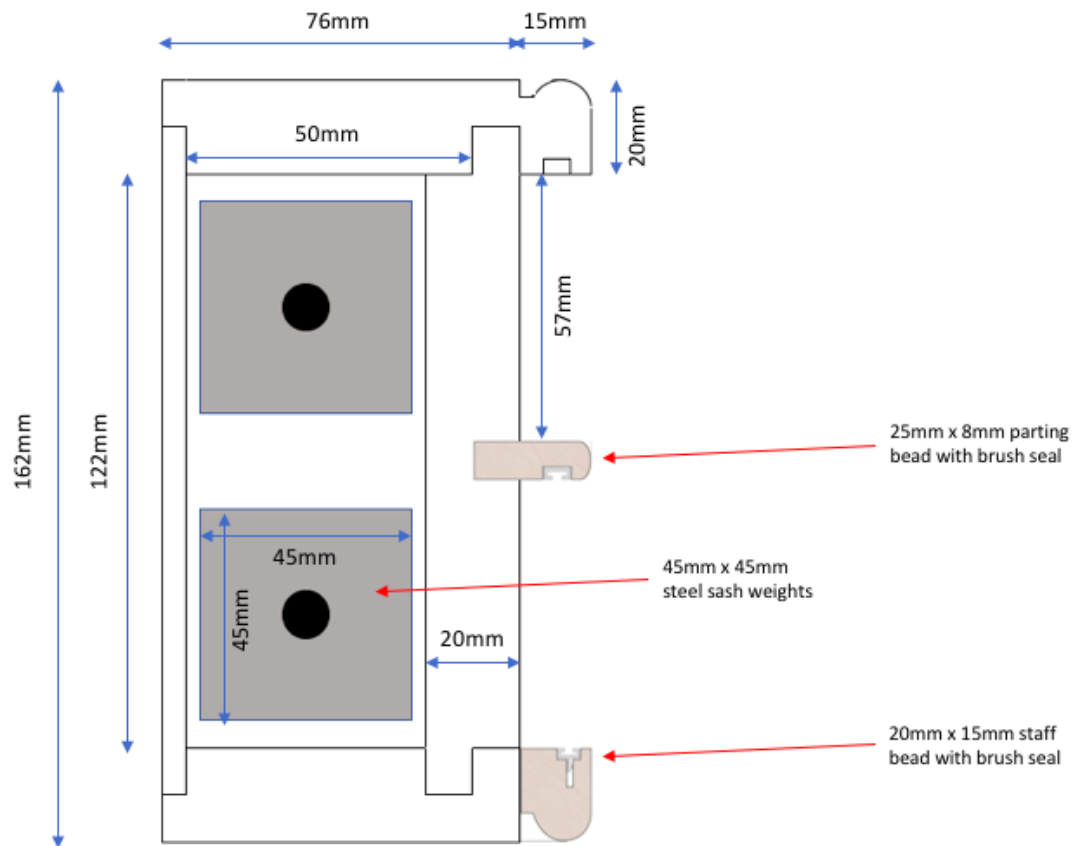
For further technical information contact our Technical Support Team on 0161 406 5300.



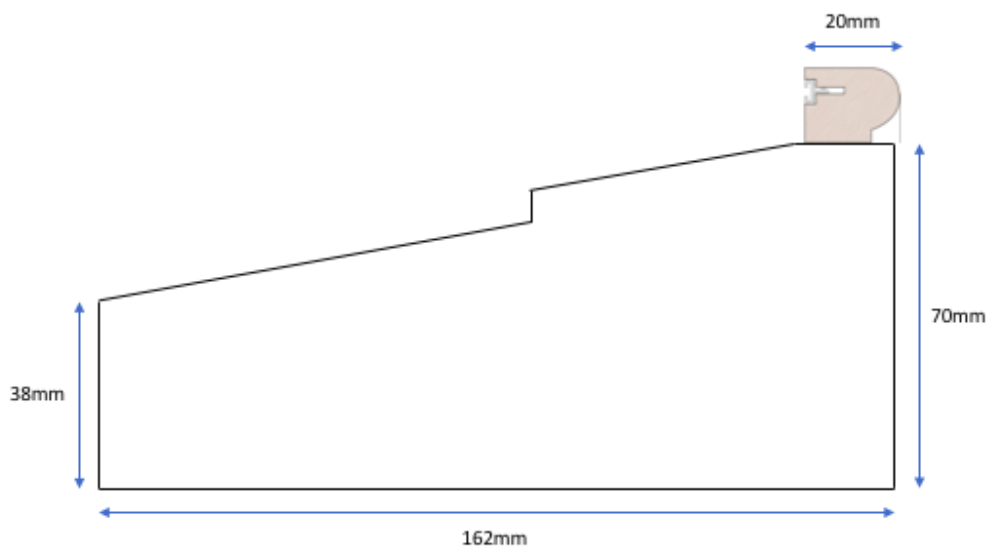
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Through section of frame Jamb



Cill section



Through section of sash

