

**BB nuance**

# installation instructions

for solid surface wall panelling and worktops



# product data

## Wall panel and upstand composition

5mm thick reinforced moulded acrylic.

2400 x 1200 x 5mm wall panels - weight, nominal 21kg.

2400 x 100 x 5mm upstand- weight, nominal 2kg.

## Worktop composition

5mm reinforced, compression moulded acrylic face bonded to 28mm, PEFC certified, environmentally preferred chipboard.

Balanced with 0.8mm high pressure white laminate.

Edged in "same colour" 1.7mm reinforced, compression moulded acrylic.

Edge features 1.5mm radius.

Worktops are prefinished to save time on site. In most installations, cutting to size is all that is required. However re-edging or jointing will necessitate a full on site sanding to grey ultrafine scotchbrite finish.

2400 x 600 x 34mm worksurface, finished front and both ends – weight, nominal 41kg.

2400 x 360 x 34mm worksurface finished front and both ends – weight, nominal 25kg.

## Re-edging cut worktops on site

You will need:

- Onsite edging strip - 1220 x 35 x 1.7mm.
- Joint and edge finishing kit - one per installation.
- 50 ml solid surface colour matched seaming adhesive completes two 360mm edges or one 600mm. (do not use BB Complete).

## Sealants and Adhesives

### BB Complete adhesive and sealant

Bushboard's superb all in one colour matched adhesive and sealant system. Use to bond panels to walls, fix upstands, generally waterproof the installation & sanitary ware and neatly seam edges.

- Moisture curing system: spillages and smears must be cleaned using white spirit.
- Provides excellent waterproof, fast grab bonding of panels to walls.
- Excellent gap filling properties with no shrinkage.
- UV stable, ideal to form waterproof, colour matched sealing beads.
- User friendly in a standard 290ml cartridge to fit mastic guns.

Available in 23 colours to blend with Nuance, plus a cost effective neutral bonding version.

Use of BB Complete to bond and seal is a condition of our warranty. One 290ml cartridge will bond one 2400x1200 panel.

### Solid surface colour coded seaming adhesive

50ml cartridge sufficient for two 600mm worktop joints or one 1200mm panel joint.

Use to join two solid surface edges together seamlessly: joint wall panels, joint worktops, apply worktop edge strips.

Do not use to bond panels to walls, install upstands or seam.

Must be used in conjunction with a Joint & Edge Finishing Kit and needs a 10:1 mixer gun, see tools section for details of the gun.

# essential installation tools & materials

The use of good tools will ensure a superior, professional finish. And remember, BB Complete forms part of the Nuance warranty.

**Hand Router:** to form straight cuts.

**Hand Held Circular Saw:** to size encore.

**150mm random orbital sander** – at least 500 watts of power and 5mm sanding stroke: to sand joints and faces.

**Palm sander:** to sand worktop edges.

**Vacuum dust extraction unit:** vital to ensure final quality.

**Jig Saw:** to scribe shape and form cut outs we recommend the use of BOSCH T127D blades.

**Edge Trimmer/Edge Profiling Machine:** to trim edge overhang and to replicate the 1.5mm factory edge profile.

**Electric Drill:** for general drilling operations.

**Solid surface colour coded seaming adhesive and mixer gun:** the reusable gun is available from your Nuance supplier.

**Standard mastic gun:** to dispense bbcomplete adhesive and sealant.

2 x **Double cup suction mirror lifters.**

**BB Complete neutral bonding adhesive** 290ml: a cost effective non coloured version – use to bond panels or upstands in place.

**BB Complete colour matched adhesive and sealant** 290ml – available in 23 colours to co-ordinate with Nuance – use to bond panels and upstands in place and to produce seams around panels, worktops and upstands.

**50mm heavy duty double sided tape** (9meters per 2400x1200 panel).

**Clamps:** Type A – to apply worktop edging strip on site and to form wall panel joints.

**Hot melt adhesive and gun** – to make temporary fixings for Type A clamps whilst bonding wall panels together.

## Joint and edge finishing kit

Cleaning and sanding materials necessary for re-edging worktops and jointing wall panels. Adhesives and edge strips are purchased separately. Use one kit per installation. The kit includes:

- Imanol denatured alcohol and white cleaning wipes – vital to fully cleanse all solid surface mating faces before application of seaming adhesive.
- 1 x 150mm 180 grit sanding discs for bulk removal of cured seaming adhesive.
- 1 x 150mm 240 grit sanding discs for

refining areas sanded to 180 grit.

- 2 x 150mm 320 grit sanding discs for all over sanding.
- 2 x ultrafine grey scotchbrite discs – for the final all over finish. This grade is vital to bring up the final finish on black sparkle and chocolate sparkle.
- BB Complete polish and Microtex cloth for final polish finish.

# before you start

When working with Nuance and related materials we strongly recommend relevant personal protection equipment is used.

## Storage and Handling

All panel products must be stored flat on their back, off the floor and fully supported along the length and width. Failure to do so can cause irreversible deformation of panels.

For long term storage we recommend panel products be stored in their factory packaging.

We recommend all panel products and adhesives to be stored at room temperature. BB Complete must not be exposed to prolonged periods of low temperature as it will deteriorate rapidly.

Nuance solid surface wall panels should be carried by 2 persons on the edge to minimise bowing and damage. **Do not carry flat.**

## Conditioning

Nuance solid surface panels and adhesives must be brought up to room temperature prior to installation.

## Colour Compatibility

Colour compatibility of components must be checked prior to installation.

Wall panels & upstands – to check colour compatibility between components, pull back the protective film and lightly sand a small area on each component using a scotchbrite disc. Wipe off any dust and apply BB Complete polish, buff and compare components to satisfy yourself.

Worktops are pre finished – simply apply BB Complete polish and compare components. Edging strips should also be compared in this way.

*Should any material appear to have an unacceptable colour variance please contact your distributor before commencing work as claims for colour incompatibility cannot be made after installation.*

## Health and safety

Nuance solid surface is not known to be associated with any hazards. Even so, it is good practice to use appropriate PPE, such as safety goggles, overalls, protective gloves, protective footwear etc

# design & planning

## Planning pointers

It is important to familiarise yourself with range of Nuance solid surface wall panel products, to achieve lasting results.

- Always allow 2mm expansion/sealant gap when finishing up to a fixed wall, ceiling or 90° corner where 2 panels meet.
- Always allow 5mm expansion/sealant gap when finishing down to a floor, shower or bath.
- Ensure vertical plumb is true and walls are flat and free of dips.
- All loads attached to Nuance wall panels must be transferred through to the back wall.
- Voids behind the back of the panel must be filled so the panel does not distort or carry any load.
- All exposed edges must be dressed using a hand router.
- To minimise spread of sealant we recommend use of masking tape when forming exposed finishing beads.

## Preparation, Wall/Floor

Nuance wall panels can be bonded to most sound flat surfaces using bbcomplete adhesive and sealant providing:

- Walls are flat, dry, clean and damp free.
- The floor and walls are water proofed using appropriate tanking materials.
- Walls are tanked at least 50mm up, past the base of panels.
- When using panels for wet rooms ensure a minimum 5mm gap is allowed between the panel and finished floor level.

## Plumbing

Carry out all necessary pipe work and plumbing leaving stubs ready to receive brass ware.

# installation of solid surface panels

Nuance is a hardwearing surface and as such the correct use of good quality machinery and the correct sharp cutters will produce a professional finish.

## Cutting and drilling Nuance solid surface wall panels

- All sizing work should be carried out using circular saw or preferably a hand router.
- Shapes and cut outs can be cut using a jig saw.
- Circular holes are best formed using a circular hole saw cutter or high speed drill bits.

## Installation of Nuance Solid Surface wall panels

Nuance solid surface panels can be installed:

- Before installing shower tray and bath.
- After installing shower tray and bath.

## Panel installing before shower tray and bath

*NB: For full height bath panels a neat lap joint will be needed, refer to 'Forming and assembling vertical panel lap joints'. Where appropriate allow for lap joint before cutting panel.*

Panels must be supported on sturdy base when cutting drilling etc.

Establish the area to be panelled.

Measure and cut panels allowing for a BB Complete sealant gap as shown in *fig C1 and 4*.

Measure and form apertures for services.

Using suction mirror lifters dry fit and then remove panels.

Using a clean wipe and white spirit thoroughly clean the back of panel and allow drying time.

Ensure wall is clean, dry and free of dust.

Refer to *fig C2*. Apply 50mm double sided tape followed by 5mm diameter beads of BB Complete adhesive.

Remove the release paper backing from double sided tape.

Using suction mirror lifters offer the panel in place, ensuring a 5mm gap (use spacers) at the base and 2mm gap to vertical edges.

Firmly press back to the wall applying pressure all over the panel to ensure sufficient grab especially from double sided tape.

Repeat the above process to install further single panels.

Allow 24 hours before installing shower tray and bath.

Apply BB Complete adhesive fully into the 2mm, 5mm gaps and top/vertical exposed edge of the wall panel ensuring no voids. Form a neat bead using masking tape or by smoothing using white spirit.

When installing the shower tray or bath, apply at least a 4mm layer of BB Complete covering the entire height of the bath or shower tray ledge as shown in *fig C6*.

Allow to set for 24hours before installing equipment.

## Panel Installation after the shower tray or bath

Ensure the shower tray and bath are securely installed and sealed to the wall; allow for the future effect of the weight of water & bather on the bath in relation to the wall. It's advisable to let the bath in the wall by around 5mm. Shower trays with integral upstand can be let into the wall. Refer to manufactures guidelines and install shower enclosure wall trims.

*NB: For full height bath panels a neat lap joint will be needed, refer to 'Forming and assembling vertical panel lap joints'. Where appropriate allow for lap joint before cutting panel.*

Panels must be supported on sturdy base when cutting drilling etc.

Measure between the shower enclosure trim and the wall corner and cut panels to allow a 2mm Sealant gap with BB Complete vertically and 5mm at base of panel and tray/bath.

Follow steps for panel installation above.

## Forming and assembling vertical panel lap joints

*Lap joints formed using colour matched solid surface seaming adhesive provide a seamless water tight joint. This process requires higher levels of skill. Regular free of charge training courses are held at Bushboard; please call for details.*

A sturdy base support board must be used when routing a lap joint.

To create a lap joint the leading edge of the panel will need to be dressed using a router, as shown in *fig C3*, allow for the overlap when calculating the panel size.

To form the 10mm male lap joint, place the panel face down on a sturdy board. After marking out, place a straight edge in position and secure using G clamps. Set the router plunge depth to cut a 2.5mm rebate into the panel.

To form the 8mm female lap joint place the panel face up and clamp a straight edge in position. Set the router plunge depth to cut a 2.5mm rebate into the panel.

Dry fit the lap jointed panels: installing the panel with female 8mm lap joint first.

Refer to *fig C5*. Using hot melt adhesive, fix 40mm x 15mm timber or MDF blocks to the panel face; these facilitate the use

of 'A' clamps to hold the joint together as the adhesive cures.

Remove the panels and form apertures for services.

Thoroughly clean the back of each panel using white spirit allowing it to dry fully.

Now wash your hands then thoroughly clean the lap joints using imanol denatured alcohol and the white wipes from the Joint and Edge Finishing Kit. It is vital that these joints remain impeccably clean. Do not touch them again. If you do, re-clean with imanol. Failure to clean well will leave a grey tainted joint after sanding.

Apply double sided tape and 5mm diameter BB Complete adhesive beads to the panel with the female lap joint as shown in *fig C2*.

Remove the release paper backing from double sided tape.

Using suction mirror lifters offer the panel into place, ensuring a 5mm gap using spacers at the base and a 2mm gap to vertical edges.

Firmly press back to the wall applying pressure all over the panel to ensure sufficient grab, especially from the double sided tape.

Follow the process above to prepare the male lap joint panel.

Apply two beads of colour coded solid surface seaming adhesive to the female lap joint. You now need to work quickly; the adhesive workable time is five minutes.

Using suction mirror lifters offer the panel into place ensuring the lap joint meets before the double-sided tape grips; you may need to angle the panel slightly. The aim is to close the lap joint tightly before pressing the panel into place.

Refer to *fig C5*: Apply four A-clamps to the blocks previously hot melt glued in place. Then firmly press the panel back to the wall ensuring sufficient grab especially from the double sided tape.

Allow 24 hours before commencing sanding/finishing.

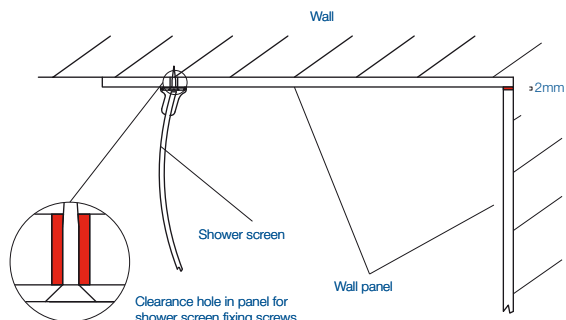
Using a random orbital sander with the 180 grit disc sand away the adhesive bead fully. Take care not to over sand; an unsightly dip can be sanded into the panel with this more aggressive disc.

Next refine the area sanded above with a 240 grit disc.

Finally sand the entire panel surface with 320 grit discs to evenly finish the full surface. You may decide to sand to a final scotchbrite finish to refine the surface further. Do not sand to a gloss finish.

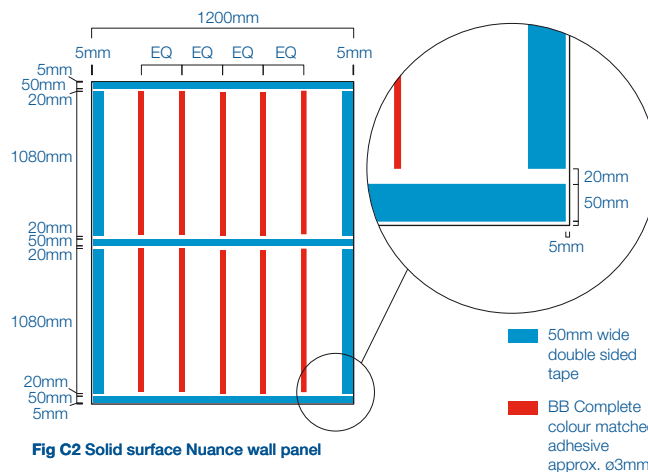
Seal all edges with BB Complete Sealant. Apply well into the 2mm & 5mm gaps to the top, bottom and vertical exposed edges of the wall panel - ensuring no voids. Form a neat bead using masking tape or by smoothing using white spirit.

Follow the sealing instructions for baths or shower trays installed after panels as noted previously. Take very special care to protect walls and floors from leakage around panel edges.



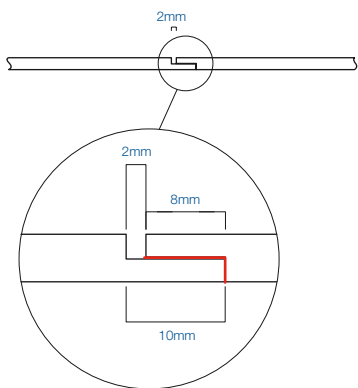
**Fig C1** Shower with panel fitted prior to enclosure

■ BB Complete colour matched adhesive



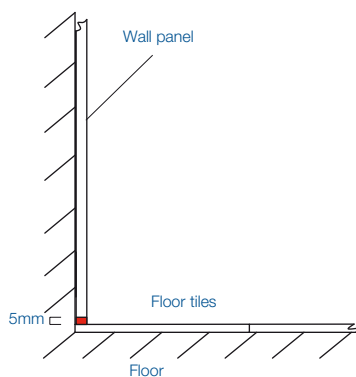
**Fig C2** Solid surface Nuance wall panel

■ 50mm wide double sided tape  
 ■ BB Complete colour matched adhesive approx. ø3mm



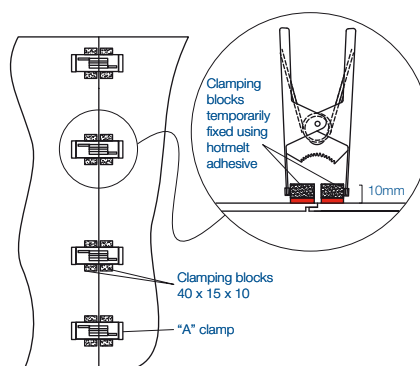
**Fig C3** Solid surface panel lap joint

■ Colour matched solid surface seaming adhesive



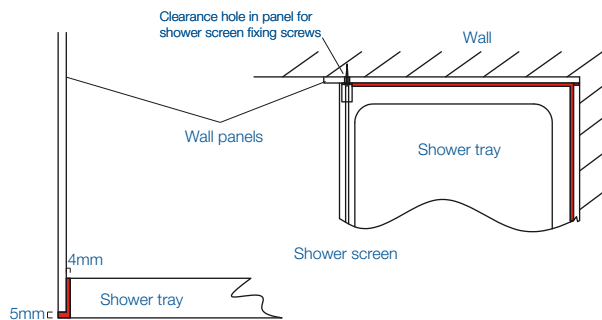
**Fig C4** Solid surface wall panel fitted to tiled floor

■ BB Complete colour matched adhesive



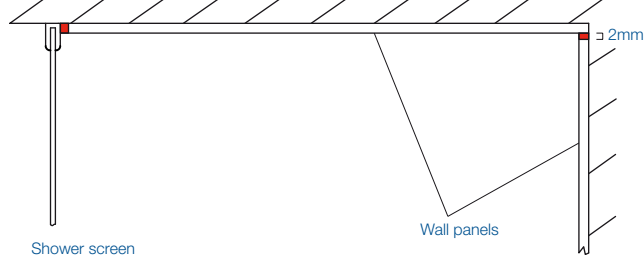
**Fig C5** Solid surface Nuance wall panel "A" clamp detail

■ Hotmelt adhesive



**Fig C6** Application of BB Complete sealant around showers and baths

■ BB Complete colour matched adhesive



**Fig C7** Adhesive application on Nuance solid surface wall panels

■ BB Complete adhesive approx ø5mm

**Nuance 600mm deep Glacier worktop and downstand.**  
The downstand can be fabricated on site using 2400x100x5mm upstand supported by a timber frame and bonded in place using BB Complete adhesive. Ensure all upstands are fully sanded to their final finish before they are bonded to the wall and polish is applied.



# installation of solid surface worksurfaces

Nuance is a hardwearing surface and as such the correct use of good quality machinery and the correct sharp cutters will produce a professional finish.

*Nuance solid surface worksurfaces are pre-sanded and include pre-finished short edges straight from the box. In most installations the surface simply needs cutting to size, no need to sand, simply fit, apply BB Complete polish and leave for the customer to enjoy.*

However should you need to re-edge or joint then sanding and special processing is necessary. Whilst not difficult the skills and tools involved are those of a kitchen installer. Free training is available at Bushboard. Please call us for details.

## Cutting Nuance Solid Surface worksurfaces

Nuance solid surface is a hardwearing surface and as such the correct use of good quality machinery and the correct sharp cutters will save time and effort whilst producing a professional finish. See recommended tools under essential tools and materials.

- Always commence the cut into the factory fitted edge. Never cut out through the edge. Time taken cutting carefully into the front edge will help eliminate flaking or chipping.
- Ensure that loose debris is thoroughly removed from cut edge and the cutting area as dust and debris may degrade the final adhesive bond and finish of the joint.

General sizing of Nuance solid surface worksurfaces can be carried out using either a fixed, sliding table dimension saw or hand held circular saw.

Ensure a good quality sharp triple fine tooth tungsten carbide tipped blade is used.

Use two cutting passes when using a hand held circular saw:

- 1st cut: set the saw blade depth at 15mm
- 2nd cut: set the saw blade depth at 40mm

When using a fixed, sliding table dimension saw, set the height to no more than 50mm off the bed.

Final dressing of a finished edge should be made with a hand router. Back edges can be left as cut by the circular saw.

## Cut-outs

Cut-outs can be formed using a jig saw.

Mark out the cut-out using a pencil. Drill 10mm diameter holes on the waste side of the internal corners of the marked out area.

Using the holes, introduce the jigsaw blade to cut along the waste side of the marked line leaving a radius on each corner. If cutting through the front edge always enter the edge never exit it.

Thoroughly remove loose debris and dust from the cut edges and surface.

## Sealing cut-out edges and cut edges

All raw cut edges must be carefully sealed using BB Complete Sealant. Apply at least a 2mm thick coat; it works best with thickness. In a bathroom environment it is vital that all raw chipboard edges are fully sealed against moisture, steam and spillage.

## Nuance solid surface seaming adhesive

*Use only solid surface seaming adhesive to apply edges and make joints. Any other adhesive will invalidate the warranty.*

The adhesive works as a filler, sealant and adhesive on both the the solid surface material and the chipboard core. It is vital that the adhesive is applied to edges fully cleansed with imanol, failure to do so will result in a visible joint. It must be applied with the correct applicator gun to assure a correctly metered mix of adhesive and hardener. The process is as follows:

- 1 Load the Adhesive cartridge into glue applicator gun
- 2 Remove the protective cap (keep it safe to recap the cartridge), attach one of the two supplied nozzles, but do not squeeze the trigger until immediately before use.

- 3 To reduce the risk of an unbalanced mix when using a new cartridge, always run off and dispose of the first 3-5 ml of mixed adhesive.
- 4 Solid surface adhesive has a joint open time of 6-8 minutes, useful to make any final adjustments. However plan on closing the joint within 5-6 minutes. It cures fully in 40 minutes. On a warm day the joint open time may be reduced, whilst on a cooler day the curing time may need to be extended.
- 5 Do not try to remove wet adhesive from an edge or joint. Allow it to cure fully and sand the residue away. Overspills may be cleaned away when wet with imanol.

## Edging cut edges on site

*To save time on site, both short ends of Nuance solid surface worksurfaces are ready edged.*

On occasion a design will call for the installer to re-edge the product on site. The operation is simple and produces an excellent inconspicuous end cap. You will need a Joint and Edge Finishing Kit.

Complete edging work on a bench before the worktop is screwed in place.

Measure and cut the required length of edging strip. Please remember that applying an edge will increase worktop length by 1.7mm.

Now wash your hands. Clean the cut edge of the solid surface worktop and the scarified rear face of the edging strip using imanol denatured alcohol and the white wipes from the Joint and Edge Finishing Kit. It is vital that these cleansed faces remain impeccably clean. Do not touch them again. If you do, re-clean with imanol. Failure to clean well will leave a grey tainted line after sanding.

Using Nuance colour coded seaming adhesive, apply 5mm beads of adhesive 5mm in from the edges and along the length of the edging strip, top, bottom and both short edges, and finally one centrally. You now need to work quickly: the adhesive workable time is 5 – 6 minutes.

Firmly apply the edging strip and align to the rear and bottom edges. Ensure that an unbroken bead of adhesive is squeezed out all round. Secure the edging using 'A' clamps, one at each end with the others spaced approximately 80mm apart.

Allow at least 40mins adhesive cure time before commencing further finishing work.

Ideally use a hand trimmer with Titman BGT90S cutter to trim the excess edge strip away. However careful use of a 180 grit sanding disc also works well. Be careful not to over sand the surface.

Next refine any areas trimmed or sanded to 180 grit using a 240 grit disc.

## Sanding the finished edge

The use of a good quality random orbital sander of sufficient power is vital to produce a professional finish. Dust extraction is vital for quality and health and safety reasons and to ensure the consumer's home is not filled with dust.

Using a 320 grit sanding disc supplied in the Joint and Edge Finishing Kit, sand the edge to blend into the worktop both on the face and front edges. Ensure the sander is moved constantly during sanding operations. Holding the sander in one place can generate heat and create a depression in the worksurface.

Finally using scotchbrite discs sand the entire worktop over to refinish to the customer's expected finish. Black Sparkle and Chocolate Sparkle will need extra effort to bring the finish back to the final level. Only once the finish is acceptable to the consumer should complete polish be applied.

## Jointing Nuance solid surface worktops

Nuance solid surface worktops may be jointed in exactly the same manner as kitchen worktops using mason's or full mitre joints. The installer should follow the process usually used to cut joints in laminate worktops. The same jig and hand router being used as for kitchen surfaces. Remember to always cut into the factory edge and never out of it.

Joints must not be formed across or within 100mm of sink cut-outs.

Joints must not be formed over heat radiating appliances or radiators.

Joints must have biscuits applied in every instance unless totally impracticable due to design considerations.

Joints in 600mm surfaces should be clamped using three 150mm connector bolts.

Joints in 360mm surfaces should be clamped using two 150mm connector bolts.

When routing for connector bolts never route deeper than 25mm from the back face.

For straight end to end butt joints, use a straight edge guide offset to suit the router to provide a clean, square edge.

## Jointing biscuits

Jointing biscuits must be used to achieve a strong perfectly aligned joint.

Using a biscuit jointing machine form pockets to suit No 20 biscuits.

Do not cut pockets over bolt slots. Use one biscuit between each connector bolt.

## Assembling joints

*Prior to commencing work ensure all required tools and installation items are to hand.*

Glue applicator gun loaded and primed with solid surface colour coded seaming adhesive.

Sufficient connector bolts and biscuits are to hand along with a spanner.

A clean card or laminate scraper to clean the inner face of the joint after assembly.

It is vital that solid surface joint faces are thoroughly cleaned with imanol denatured alcohol and allowed to evaporate dry. This ensures a totally clean gluing face; essential on lighter colours. Do not use any other solvents or cleaners. Do not dampen the chipboard core with imanol. Apply with a white wipe from the kit. It is vital that these cleansed faces remain impeccably clean. Do not touch them again. If you do, re-clean with imanol. Failure to clean well will leave a grey tainted line after sanding.

Dispense a small amount of adhesive into the biscuit pockets on both sides of the joint and insert the biscuits into the female side if possible.

Apply two beads of adhesive along the entire length of the joint. The first bead to run just above the biscuits. The second

bead to be applied 5mm up from the bottom face. Apply further vertical beads 5mm in from the rear and front edges.

Without delay, bring the two worksurfaces together leaving a 2mm gap.

Holding the dispensing gun slightly off vertical, apply a final bead of adhesive along the top surface and front edge. An unbroken adhesive bead on the top and bottom faces, and the front edge is the key to achieving an inconspicuous and secure joint.

Bring the two worksurfaces together and align the front inner faces. If assembling a mason's mitre ensure the short 45° section is pulled together by ensuring the male section is pulled fully forward. Insert the connection bolts and tighten. Do not over tighten, generally two to three full turns after pinch point should be ample.

Using a clean card or laminate scraper with a 2mm wide, 45° section cut from one corner, scrape away the squeezed out adhesive in the inner front face of the joint using the angle cut into the scraper to leave a neat bead in the joint. This will save much time in sanding this inaccessible area.

Do not remove any excess adhesive squeezed out of the joint, leave it to cure fully. Allow at least 40 minutes curing time before commencing finishing work.

## Final finishing

### Sanding

*The use of a good quality random orbital sander of sufficient power is vital to produce a professional finish. Dust extraction is vital for quality and health & safety reasons and to ensure the consumer's home is not filled with dust.*

Using a random orbital sander with the 180 grit disc sand away the adhesive bead fully. Take care not to over sand; an unsightly dip can be sanded into the surface with this more aggressive disc.

Next refine the area sanded above with a 240 grit disc.

Next sand the entire worktop with a 320 grit disc.

Finally sand the entire worktop including the front and end edges to the final finish using the grey scotchbrite disc. Do not refine to a gloss finish.

Black Sparkle and Chocolate Sparkle will need extra effort to bring the finish back to the original level. It is vital that extra time is taken with a sander of at least the recommended quality and power

with vacuum dust extraction. Only once the finish is acceptable to the consumer should BB Complete polish be applied.

To achieve an even finish lightly spray BB Complete Polish onto the worksurface. Using the microtex cloth, thoroughly work in the polish over the entire surface area. Buff the surface up to an even finish. Leave the polish with the customer. Ongoing application of the polish on condition will ensure lasting good looks.

Finally seal all edges with BB Complete Sealant.

## Upstands

Upstands can be cut with a circular saw or a router. They must be fully sanded to the final finish before installation. Sanding afterwards is not possible. Exposed edges can also be sanded to a smooth finish. Bond the upstand to the wall using BB Complete adhesive, seaming below with the BB Complete adhesive. Clean down with white spirit to produce a neat seam. Do not apply BB Complete polish until the upstand is sanded to the correct finish.



For technical support on Bushboard products, please  
contact the Customer Service Team on:  
tel: 01933 232 242  
fax: 01933 232 286  
email: [samples@bushboard.co.uk](mailto:samples@bushboard.co.uk)  
or log onto [www.bushboard.co.uk](http://www.bushboard.co.uk)