

**Minerelle™**  
**Installation Manual**  
January 2007

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### Handling, storage and packaging

Minerelle™ worktops should be carried individually and vertically to eliminate any possibility of damage. Always unpack your Minerelle™ worktops and check for signs of damage caused in transit, report any problems found before proceeding further with the installation. Do not rest components on abrasive or gritty surfaces that may cause scratching.

### **Important**

*Minerelle™ is less prone to colour matching problems than most other solid surface products. However, components that are to be used together on the same job should be checked for colour match under good lighting conditions, if the material appears defective contact your distributor immediately. **MPP will replace any faulty tops but will not provide compensation on labour charges.***

### Notes:

- To check good colour match between two components that came from different stock periods it is advisable to lightly sand both pieces to check that the texture is not causing a visual colour shade, then wipe with a wet clean cloth.
- Store Minerelle™ worktops indoors in a well ventilated dry area. Components must be stored in racks, horizontally with adequate support along their full length.
- Before fabrication or installation, all Minerelle™ worktop products should be brought to room temperature of minimum 17°C (62°F).
- Please note that edging or cast sheet products will become more brittle in cold temperatures so handle with care. Adhesives destined for immediate use must be brought to room temperature beforehand.

### Product weight

4100 x 650 x 40mm = 71kg	4100 x 900 x 40mm = 98kg
2050 x 650 x 40mm = 36kg	2050 x 900 x 40mm = 49kg
3000 x 740 x 30mm = 47kg	4100 x 600 x 6mm = 23kg
4100 x 600 x 12mm = 46kg	4100 x 50 x 12mm = 4kg

### Health and safety

There are no known hazards associated with Minerelle™ solid composite surfacing. Normal, good workshop operating practices should be followed as with any other panel product. When machining Minerelle™ components, methyl-methacrylate vapour is released, but will dissipate with adequate ventilation. Always wear eye protection. When sanding Minerelle™ always use a dust mask as the material is classified as a nuisance dust. Good extraction on the sander and router will remove dust and shavings. Consideration should be given to the weight of the product when off loading and installation. Material Safety Data Sheets are available and can be obtained from your distributor or by downloading a PDF file from our web site [www.minerelle.com](http://www.minerelle.com)

### Layout and joint placement

Having designed the kitchen layout and planned the location of all appliances, consideration must now be given to the worktops and the location of the joints. Please remember that a key feature of Minerelle™ is the **inconspicuous** seams, so care needs to be taken in their preparation and fabrication.

**You must ensure all pencil marks are fully removed by using Imanol and all solid surface edges are de greased with Imanol before attempting to joint with colour matched adhesives.**

The maximum supplied length of worktop is 4100mm; therefore in some cases straight butt joints will be needed in long worktop runs.

All joints must be located with care and the following points must be followed: -

- Joints must not extend across hob and sink cut-outs.
- Offset all joints by at least 100mm from all cut-outs.
- No joints over dishwashers, offset by a minimum of 100mm to one side of the appliance space. Always use the heat deflector plate or tape provided with your dishwasher.
- Check location of corner units i.e. carousel units, as cut-outs in the top panel will have to be made to allow insertion of draw bolts.

#### Site condition and security

The installation site must be dry and secure i.e. window glass in place. Temperature at location of installation is important, as the rate of cure of the jointing adhesive is dependent on the temperature of the worktop, adhesive and general surroundings. The colder it is the longer the cure time. Temperature should be at least 17°C (62°F) to ensure a successful cure process and no greater than 26°C (80°F) as the adhesive would cure too rapidly to use.

#### Site preparation and checks

Ensure that all carcass units are installed, attached to the wall, plumbed and levelled in both directions. Check appliance spaces to ensure that wall worktop support battens are in place.

Check you have enough adhesive to complete the job ( 1 cartridge for every 2 joints of 650mm deep in 40mm thickness) and that it is the correct colour to match the tops, jointing bolt sets and any additional edging strips required. Determine that all cut-outs have been machined to the correct dimensions and located correctly. If cut-outs are left for on site machining, check that cooker hobs, sinks and anything else that determines size of cut-out is on site.

#### Note:

- We recommend that before joints are bonded with the seaming adhesive they are dry fitted to make sure that they are tight and accurate.

#### Tooling and equipment

There are no specialised tools involved in the installation of Minerelle™. The only tooling needed that is different from standard laminate worktop fitting is the random orbital sander and vacuum extractor (essential for efficient sanding).

- Router and cutters
- Sander and sand paper (see seaming and finishing section) – with extraction
- Worktop jig (should a mitred joint be specified)
- Jig saw
- Dust masks
- Safety glasses
- 'G' or 'A' or slip cramps
- Imanol (denatured alcohol) and white clean cloths

- Jointing bolts (3 per 650mm joint)
- Jointing biscuits
- Heat reflective tape (hob cut outs)
- Seaming adhesive and applicator gun

### Routers

A router is the most suitable tool for machining Minerelle™. When choosing a router always make sure the machine is sturdy and powerful enough to do the job. For butt and scribe jointing and edge dressing a minimum rating of 1200 watts is recommended, for sink and hob cut-outs a higher rating of 1600-2100 watts would be required. Minimum rotational speed of cutter 18,000 rpm.

Router cutters should be of high quality tungsten carbide, double fluted, with a 12mm shank to reduce chatter. 6mm grooving saws should be a minimum of 4-wing with a strong arbour support having a 12mm shank (recommend Titman HD650 or adjustable type ADG5-9 with Arbor HDGA).

### Note:

- When machining on a residential site it is advisable to fit an extraction unit onto the router to reduce dust and shavings.

### Sanders

Random orbital sanders can be either electric or air-driven but must have minimum orbital speed of 10,000 rpm with a 3/32" orbit, preferably with a 150mm diameter pad.

Recommended sand paper grits are: -

- 180 grit for removing adhesive bead and sanding lines
- 240 & 320 grit for finishing
- Scotch-Brite® 7448 (grey) for surface polishing

### Saws

The most practical type of saw to use in customising Minerelle™ is a sliding table saw, as the product has only to be crosscut to a new length. A fine chip free cut is required to minimise edge dressing. To achieve this a triple chip-tungsten carbide tipped (TCT) saw blade is recommended. (e.g. 230mm/300mm diameter with 60/72 teeth).

When using table saws always place Minerelle™ face-up on the table, with approximately 25mm of saw blade above the panel surface, cut slowly through the panel.

A hand held circular saw, guided along a straight edge clamped to Minerelle™, can be used for workshop or on-site sizing. These saws only produce a rough sizing cut, the edge and final finished sizing should be made by using a HD router.

### Jig saws

A jig saw can be used for the customising of Minerelle™ worktops in the same way as standard laminate tops i.e. for the cutting of sink and hob cut outs as well as other cutting operations. To reduce the amount of marking on the surface from the saw/router plate, cover the area that is to be cut with masking tape. Due to the unique composite nature of Minerelle™ cutter blade life expectancy will be reduced.

It is very important to make sure that a sharp blade is used to reduce the risk of chipping and fracturing the surface.

### Jointing and Preparing joints

If using the glue and block method, remove the cramping blocks by giving them a sharp side blow with a rubber mallet, do not prise off using a chisel. Remove any hot melt adhesive that may be left.

Carefully remove the ridge of adhesive with a Random Orbital Sander using a 180 grit abrasive disc, taking care not to sand a depression in the surface. It is recommended that portable extraction is used when sanding.

### 1. Butt and scribe joints

When all the Minerelle™ components are customised to their final length, lay out the worktops to check the finished dimensions against the drawing/plan, with all internal corners and open-ends in site. (If the quality of saw cut is not adequate to produce a chip-free edge, cut oversize by approximately 3mm/edge and dress to final length using a router and straight edge, or alternatively use the butt and scribe jig)

If a butt and scribe joint is specified, then your standard worktop butt and scribe jig with the appropriate guide ring and router cutter will be adequate. Dog-bone recesses must be routed to a depth of 25mm to allow even pull on the surfaces, also cut three evenly spaced dados using a biscuit jointer and #20 biscuits for surface alignment and strength.

### Notes:

- Only use Imanol cleaner for cleaning jointed areas. Do not use cellulose thinners for cleaning.
- If using a new router cutter please ensure you wipe off the oil film, this can leave a residue and can contaminate the joint.
- When using worktop-jointing bolts: if the dog-bone recesses have not already been prepared, you should do that at this stage (with the butt and scribe jig and router cutter), to a recess depth of 25mm.
- Prepare the joint faces by cleaning the edges and surrounding areas with a clean bleached or natural cloth dampened with Imanol to remove grease, dust and pencil marks. You may have to repeat this process twice or more to ensure no residue of grease or pencil marks left. Do not use a coloured cloth as this can cause colour contamination and do not touch the edges after cleaning.
- On light colours if the edge and the surface have been marked with a pencil and not cleaned then the adhesive can draw in the pencil mark into the joint and leave a dark shadow. Use **Imanol** cleaner only.
- **HAVING APPLIED THE ADHESIVE, YOU HAVE 5-8 MINUTES TO BRING THE JOINT TOGETHER AND MAKE FINAL ADJUSTMENTS.**

### Cramping sequence

- Dry fit to make sure that the joint looks tight. Any gaps that are seen on the dry fit could be seen after seaming.
- Apply Minerelle™ seaming adhesive in biscuit dados and insert biscuits
- Apply three even beads of seaming adhesive along the full length of the joint.  
**It is important that there is good coverage at the bottom and top of the edges.**

**Any gaps in the adhesive bead could be a gate for moisture and water ingress, causing cracks in joints.**

- Assemble joint and draw joint together using the draw-bolts or sash clamps.
- Draw the joint together, aligning the front profiles, but **do not over tighten (approximately eight ¼ turns from bite point). An adhesive bead is required along the entire joint line, as the adhesive hardens the bead will shrink slightly.**
- Check that the work surfaces are level and flat either side of the joint before leaving the adhesive to cure. You can check the alignment of the tops by using a metal strip to wipe away a small section at the front and back of the joint, once aligned place back the adhesive on the joint. Do not remove the adhesive from the area after checking.
- You have a maximum of 6 – 8 minutes to do any alterations to the joint level.
- Any excess adhesive can be removed from the 90° joint on the front internal corner by chamfering a 90° piece of wood or plastic tool so that a small bead is left for curing. This will help when it comes to sanding off, as this area can be difficult to sand and polish.

Note:

- **It is important that the bottom edge of the worktop has a full bead to ensure moisture resistance.**

Leave the joint 30 - 35 minutes to dry. Do not sand or disturb the joint until the adhesive is hard or when it is not possible to scratch the glue bead with a fingernail.

In the jointing process you may get some of the seaming adhesive onto the surface, this will not damage the surface but once dry the only way to remove the adhesive will be by sanding. To prevent this, wipe off with Imanol immediately after spill.

Adhesive system - preparation.

- See attached list of adhesive colours on page 12, which match the Minerelle™ designs.
- Each cartridge will seam/joint two 650mm joints.
- The adhesive is a two-part system with the pigmented adhesive in one compartment and the hardener in the other.
- Do not allow skin contact with the hardener – wash off immediately.
- The cartridge is reusable providing the applicator is clean and the cap is replaced – shelf life is 12 months from fill date providing stored in cool place.

Notes:

- Extra nozzles are available from your distributor.
- Do not cut off the end of the nozzle as this will change the mix ratio and could effect the quality of the bond.
- Before applying the adhesive you will need to squeeze out half a nozzle of adhesive to ensure a good mix in the nozzle of adhesive and hardener.  
**Always use an applicator gun to apply the adhesive.**

Edge preparation and bonding.

When cross cutting worktops to length, allow for the end capping process. When the edge is routed, tape the edge strip in position and check the final dimension across the ends. Standard edges are 6mm in thickness and 45mm wide and 4100mm or 1350mm long.

Note:

- Check that the edge is the same colour as the top.

Ensure the newly machined edge is free of dust and make sure to clean the back of the edge strip with **Imanol**.

Apply three beads of adhesive to the back of the edge strip, ensure total coverage. Apply edge strip and press into position, adhesive should squeeze out around the complete joint area top and bottom. Cramp in position using tape and blocks or 3-way G-cramps or the 'A' cramps (max 100mm intervals) and allow adhesive to completely cure i.e. when it is not possible to scratch the adhesive with your fingernail.

Note:

- **It is important that the bottom edge of the worktop has a full bead to ensure moisture resistance.**

Having established that the adhesive has cured, flush trim all protruding sections with H D Router and appropriate trimming cutter. Make sure when doing this, that the worktop is fully supported and cramped to bench or trestles.

Profile the edge with the 3mm radius router cutter taking care not to mark the surface. Sand the edge profile. It is recommended to sand at least 50mm of the underside of the worktop to provide a "smooth-to-touch" finish.

Forming edges

Minerelle™ edges can be formed around special shapes. To form the edge it is important that the edge is kept at room temperature (20°C). Before applying the adhesive, clamp the edge in place to ascertain that the shape is achievable.

For tighter radiuses it may be necessary to heat the edge in a heating tray to a temperature of 100°C for 20 minutes. No tighter than a 200mm radius. Form the edge to the shape and hold in place with "A" clamps or masking tape. Once the edge has cooled down, take off the clamps or masking tape, clean with **Imanol** and apply Minerelle™ adhesive. Position the edge on the shaped top and use the "A" clamps until the adhesive is fully hardened.

**Do not apply adhesive when you are forming edges, as the heat will alter the bonding strength of the adhesive.**

Upstands and Splashback

Upstands and splash backs can be fixed using a good quality silicone or a PUR adhesive system. Make sure walls are dry from moisture and the splash backs or upstand are clean from dust and grease. **Splash backs and upstands should be polished prior to fixing.** Edges that are exposed should be sanded to the relevant finish.

Note:

- **Do not use 6mm sheet at the back of hobs** – for this we recommend 12mm with a good quality adhesive such as PUR.

Apply a large bead of silicone where the surface meets the wall and another bead about 10mm from the top at the back of the upstand or the splashback, and push firmly into position.

## Finishing

Throughout the text of this manual, it has been our intention to provide you with information that will assist you in fabricating and fitting Minerelle™ worktops. The following recommendations show you a simple and clear set of techniques to finish the work surface to your customers desired finish.

- The recommended finish is achieved by sanding the entire surface with a 180 grit abrasive disc, followed by 240 then 320.
- With even pressure, sand the surface moving East-West then North-South making sure to overlap half of the pad as you progress. This should be followed by sanding in a circular motion “clockwise”. If you sand anti-clockwise, you will leave “pigtail” marks on the surface. This is because you are working against the sander’s rotation.
- Sanding is followed by buffing with a grey abrasive Scotch-Brite pad under the random orbital sander following the above process. Once you have finished buffing with the pad, remove surface residue with a damp cloth. Do not proceed with spraying Countertop Magic until the surface is clean and dry.
- Spray a moderate amount of Countertop Magic and wipe over evenly with a clean cloth. You will then need to buff the surface with a dry polishing cloth until an even finish is produced.

## Notes:

- Each sanding operation should last 45 to 90 seconds per square foot, depending on surface conditions and colour.
- The higher the gloss level and **the darker the colour the more visible scratches become, and greater effort is required by your customer to maintain this finish.**

The surface can be refined using our recommended solution, Countertop Magic. This is applied to the entire work surface, left for a few minutes and then rubbed in using a clean dry cotton cloth, then buffed off completely by using a fresh dry cotton cloth.

## Cut-outs

When designing the worktop layout, never allow a butt joint seam to extend into a cut out. The butt joint seam must be offset from all cut outs, dishwashers or other heat generating appliances by a minimum of 100mm.

When machining cut-outs in the workshop, it is advisable to only partially machine out the centrepiece, as its total removal could subject the product to possible damage when transporting to site.

The ideal method is to cut through the surface material into the core, to a depth of 35mm, around the cut-out. Then take the router cutter through the final 5mm, at each corner and for about 100mm each side. The remaining 5mm of core material can be simply jig sawn on site using a pencil mark drawn between the corners as a guide.

**Seal the edges with a good quality waterproof silicone sealant. PVA is not recommended as a long life seal.**

### Cut-out (tools):-

- Safety glasses
- Dust mask
- Jig saw (sharp blades) or Heavy Duty Plunge Router
- Drill and 16mm drill bit for 8mm internal radius on all cut outs
- 12mm diameter X 50mm TCT Router Cutter
- 3mm radius Profiling cutter + bearing (Titman ROCB 3)
- Straight Edge Guide for HD Router
- Silicone sealant
- Heat reflective tape

### Hob cut-outs

When marking out the hob cut-out, allow approximately ¼" (5mm) clearance on all sides of the Hob box. If cutting on site, ensure proper clearance by measuring flange around Hob top.

Having cut and prepared the cut-out as above, *apply aluminium heat reflective tape* around the entire rim of the cut-out. Ensure the tape stays in place when clamping the hob into position. Position the tape so that there is an even rim on the top and bottom edge of the worktop. Do not mechanically fasten a cooker hob into the surface material. This will prevent excessive heat build up and the potential risk of stress cracking.

### Sink cut-outs

When clamping a sink to the worktop, always use copious amounts of silicone sealant to seal the sink rim to the work surface, and seal any exposed chipboard edges.

**Under no circumstances must internal corner cut-outs be finished with square corners. Always machine a radius to these corners and make the radius as large as practical (8mm min).**

### Inline Workstations

The structure of the Inline workstations are different to Minerelle™ worktops. However, they are engineered to be fitted in exactly the same way as the standard worktops. The 12mm coating of the Inline workstation allows the installation of Undermount sinks and the provision of drainer grooves.

The same number of the biscuit joints are used in the 650mm width for the alignment of the tops however, care must be taken to ensure that the location of the biscuit slots are between 20-25mm from the face of the worktop. For cramping sequence please refer to page 6.

### Product repair

It is possible with Minerelle™ to repair chipping or broken edges by using the Minerelle™ repair kit. The repair kit is a 2 part product - the *repair compound* and the *catalyst*.

Steps in repairing.

1. Remove the damaged area by either drilling or router out no deeper than the surface i.e. 1.5mm. If you are repairing a vertical section then this can be achieved by building up a dam with masking tape.

2. Clean the area with Imanol. Do not use nail varnish remover or similar which may contain mineral oil.
3. Thoroughly mix the contents of the repair compound in its original tin so that all the settled particles in the tin are re-mixed with the resin.
4. Fill the paper cup to the line with the repair compound and add 7 drops of catalyst into the cup and then mix thoroughly.
5. Depending on the colour, repair materials may be viscous (thick) and not as fluid. Care must be taken to avoid air entrapment.
6. Once the repair is hardened (normal cure time is 24 hours), sand off to the desired finish.

Note:

- The colder the environment the longer the cure time. Ideally leave overnight. If possible carry out the repair in a warm area, this will also help the flow of the repair compound.

Contents of Repair Kit

- 1 tub of repair compound (200g)
- 1 bottle of catalyst
- 1 bottle of 200ml Imanol (cleaning solution)
- A pair of Latex gloves
- 2 paper cups
- 2 mixing sticks

The shelf life of a repair kit is 3 weeks from fill date; this will reduce in warmer conditions.

Tools and equipment availability

This document provides details of both products and suppliers of the materials needed to fabricate and install the Minerelle™ product. Other materials may be used but at this time the products listed below have been tried and tested.

1. Sanding tools.

To finish Minerelle™ you will require a random orbital sander driven either by air or electric. It is recommended to use a 150mm-diameter pad. We advise when working in residential properties to use a sander that has extraction facilities. MPP recommend Festool RO150E with extraction unit.

2. Sanding papers

**Brand names including: Festool, Mirka, 3M, Klingspor**

- 180 grit      equivalent to 80 micron
- 240 grit      equivalent to 60 micron
- 320 grit      equivalent to 40 micron

3. Finishing system

After sanding use a Grey Scotch-Brite pad reference 7448. Most abrasive suppliers have their own version of the Scotch-Brite pads.

4. Clamps

“A” Clamps are a simple solution to re-edging. These clamps can be purchased from your Minerelle™ distributors.

## 5. Imanol (cleaner)

Imanol is denatured alcohol and is needed to clean surface and edges before bonding and the removal of spilt adhesive.

## 6. Reflective tape

Heat dissipative tape is needed within the hob cut out as a heat absorber and deflector. This can be obtained from your distributor.

## 7. Cutters

To machine off the re-edge you will require a 12mm flush trimming cutter 19 x 25mm Titman BGT90LK and a 3mm rad profiling cutter Titman ROCB 3.

## Bathroom Panels

All instructions and tips provided here assumes that walls are straight and free from dips and excessive waves. If not they should be made flat and be ready for the installation beforehand.

As a waterproof product, 6mm cast sheets do not require additional support and can be fitted directly to the walls.

Bathroom panels are factory finished to 400 grit which provides a satin finish. Simply wipe the surface with damp cloth until all the dust is removed, then apply Countertop Magic and wipe again with a clean cloth. Finally, buff the surface with a clean dry cloth.

Tube paste adhesives such as No More Nails or equivalent are recommended for this application. Ensure the back of the bathroom panels are free from dust. If necessary wipe off with damp cloth and allow to fully dry before proceeding.

**NB. Ambient temperatures below 17°C will prolong drying time of the adhesive. Refer to adhesive manufacturer's instructions. Bathroom panels also become brittle in temperatures below 17°C. PLEASE HANDLE WITH CARE.**

Apply 6mm (1/4") bead of adhesive as evenly as possible to the wall. If necessary, use an adhesive spreading trowel to ensure even thickness of the bead. Adhesive beads should be applied 12mm (1/2") from edge of the panel and in 300mm intervals.

Press panel firmly into place and apply even pressure across the whole panel to achieve a flat surface. Uneven pressure may result in wavy appearance of the panel. For corner panels leave a gap of 2mm between the wall and the edge of the panel to allow for expansion. Similarly, leave a 2mm gap for the adjoining panel (figure1).

To complete a 90° angle installation, apply a Minerelle™ "corner" jointing bead. Use one small bead of clear silicon directly in the corner of the of the panels to seal the joint and to adhere the Minerelle™ corner bead . When panelling the whole of the bathroom, a Minerelle™ "Mid-panel" jointing bead should be used in between panels. Leave a 7mm gap between the two panels, apply a bead of clear silicon and insert the "mid-panel" jointing bead (figure 2).

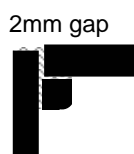


figure 1



figure 2



figure 3

Remove any excess silicon which may have been squeezed out onto the surface of the panels during the process.

**It is advisable to finish off exposed edges before fixing the panels to the walls.**

**VERY IMPORTANT.**

**When fixing bathroom accessories to the face of the Minerelle™ panels you must allow for expansion and contraction by drilling the hole 2mm larger than the diameter of the screw shank (figure 3).**

Care and maintenance

General care in preserving the beauty and functionality of Minerelle™ is as simple as wiping with a warm damp cloth. Do not leave spills on the surface for too long.

If soap is used for removing stains in dark colours it may be necessary to reapply Countertop Magic for restoring the original lustre.

Cleaning stains

Always start by trying the gentlest method. Avoid harsh chemicals (household cleaning products containing bleach)

There are many non-abrasive cleaning materials on the market, which can be used in conjunction with a sponge or if stains persist use a Scotch Brite sponge provided in the Consumer Care Kit. Use a circular motion to remove stains.

Cuts and scratches

Do not use the Minerelle™ work surface as a cutting board – the surface can be scratched and will blunt sharp knives. Use a cutting board. Worktop Savers can be obtained (300 x 400mm) from your distributor.

Minor cuts and scratches can be sanded lightly with 320 grit sand paper, followed by buffing with a Scotch Brite pad. For deep scratches please contact either MPP or your main distributor for advice.

Heat

**Never place hot pans, dishes or heat producing appliances directly onto the surfaces. Always use a hot pad or trivet to avoid marking the surface. Do not place coffee percolators or constant heat over jointed areas.**

Product warranty

Macy Panel Products Limited undertakes for a period of 10 years, from the date of purchase to make good by repair and or replacement at its discretion any Minerelle™ worktop products which can be shown to have failed by reason of defects in manufacture, that is subject to fair wear and tear, provided the worktop is installed and used in accordance with the above instructions and the products are properly used for their intended purpose or application.

Proof of purchase and date must accompany any claim under this warranty. **Exclusions from this warranty: Application of Belfast sinks, under mounted sink in standard Minerelle™ worktops, use in conservatories, use as heated (commercial) carveries.**

## Adhesive System - Colour Reference

<u>Adhesive Colours</u>	<u>Minerelle™ colours</u>	
Light Grey	Montana	2037
	Quartz	2019
	Fusion	2002
Ivory	Harvest	2007
	Cheviot	2006
	Tumble	2047
Black	Nightsky	2000
	Grafton	2030
Pearl	Sea Salt	2055
Green	Kelp	2011
Light Green	Harricana	2022
Blue	Karst	2009
Mid Brown	Krokodil	2021
Soft White	Scent	2050
Dark Grey	Reform	2051
Red	Sahri	2048
Bright White	Angel	2049