

# APPLICATION ESSENTIALS

Refer to full Application Guide:  
[www.biosurfaces.com.au](http://www.biosurfaces.com.au) for more information.

## Preparation for mixing

- » Ensure that the area for application is prepared and ready for application.
- » Confirm correct Part A and B (Gloss and Satin/Matte Part B is different).
- » Check that you have all the mixing equipment. Including timing device.
- » Use lint free roller covers.
- » Do NOT shake or use high speed mixer to mix the two parts.
- » Confirm required water reduction for the substrate and measure out clean potable water.
- » Check additives required.
- » Refer to Safety Data Sheet for PPE and safe handling instructions.

## Application Notes

- » Use high quality, lint-free 12mm nap roller covers. Less nap will apply too thin. More nap can cause texture.
- » Do not apply the product too heavy; this can cause the product to dry at a slower rate and may cause blisters and/or pot marks in the final appearance.
- » To help avoid lines, do not overload areas where the coating has already been applied. Even though the product is self leveling, try to avoid large puddles or drips.
- » Always maintain a wet edge; do not apply product over product that has already begun to clear up.
- » Do not overwork the coating; doing so can raise the stipple and leave a slight texture or orange peel in the final appearance.
- » Do not use product beyond its working pot life. Once the product begins to set-up or foam, you have reached the end of the working pot life and the product should be discarded.
- » Make sure to switch roller covers and black tubs every 1–2 gallons depending on the product used. The rollers should not be used beyond the working pot life of the material they started with.
- » Never mix freshly mixed, new product with old product. The old product can shorten the working pot life of the new product.
- » Do not try to stretch the coating. If you are nearing the end of an area, and are low on product, mix an extra gallon or quart.
- » Know your square meterage. Review the area you are going to coat. Develop a plan on where to start and finish. You do not want to 'wing it' and end up painting yourself in a corner.
- » When finished, discard the mixed materials and cans. Do not reseal the lid on cans with mixed material. The pressure will cause the lid to pop and may cause damage or injury.

MIXING STEPS		
1	<b>Open and mix Part A</b>	<ul style="list-style-type: none"> <li>» Inspect for signs of foreign particles</li> <li>» In Matte/Satin, flattening agents settle to the bottom so stir Part A for a few minutes to fully suspend the flattening agents.</li> <li>» While stirring the mixture may seem to clump up, but continue to stir as it will blend in.</li> </ul>
2	<b>Performance Plus (if required)</b>	<ul style="list-style-type: none"> <li>» Pour the Performance Plus and stir for 60 seconds.</li> <li>» Allow to sit for 10 minutes before proceeding to next step.</li> </ul>
3	<b>Anti microbial (if required)</b>	<ul style="list-style-type: none"> <li>» Lightly agitate the bottle – do not shake vigorously.</li> <li>» Pour the liquid in into Part A.</li> </ul>
4	<b>Open and add Part B</b>	<ul style="list-style-type: none"> <li>» Open and inspect part B for any foreign particles or clumps that look like large crystals. If you see any, do not use.</li> <li>» Pour Part B into the Part A mixture and stir for 2 minutes.</li> <li>» Allow to sit for 2 minutes.</li> </ul>
5	<b>Water reduction</b>	<ul style="list-style-type: none"> <li>» After 2 minutes, its time to reduce the product with clean potable water.</li> <li>» Refer water reduction guide for recommended water quantity depending on the substrate.</li> <li>» Pour the contents of the Part A &amp; B mixture into a mixing bucket.</li> <li>» Stir water in slowly. It may be easier to mix in the water by using a larger bucket.</li> <li>» Mix for 1-2 minutes until water is fully blended.</li> </ul>
6	<b>Griplok (if required)</b>	<ul style="list-style-type: none"> <li>» Slowly pour in the griplok while mixing.</li> <li>» It is best to add very slowly to ensure the Griplok is suspended in the product and does not settle to the bottom.</li> </ul>
7	<b>Accelerator (if required)</b>	<ul style="list-style-type: none"> <li>» Pour the accelerator into the combined Part A &amp; B Mixture.</li> <li>» Stir for 1 minute until fully blended</li> </ul>
8	<b>Start application</b>	<ul style="list-style-type: none"> <li>» Immediately pour the mixture into a large application tub and begin application.</li> <li>» This step is important, as leaving the product in the tin or mixing bucket will reduce pot life.</li> </ul>

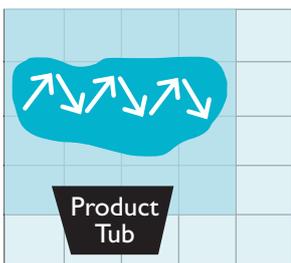
## Water reduction guide

		Quart Kit	Gallon Kit
Vertical	Colours	30ml	120ml
	Clear	30ml	120ml
Horizontal – very porous Un-primed porous concrete, stone and untreated timber (2 coats may be required).	Colours	100ml	400ml
	Clear	120ml	480ml
Horizontal – Normal Resilient flooring, previously primed/coated surfaces, etched or prepared ceramic tiles, Microcote HPU second coat.	Colours	120ml	480ml
	Clear	140ml	560ml
Horizontal – Very Smooth Vitrified tiles, stainless steel, High Gloss surfaces.	Colours	200ml	800ml
	Clear	220ml	880ml

### NOTES:

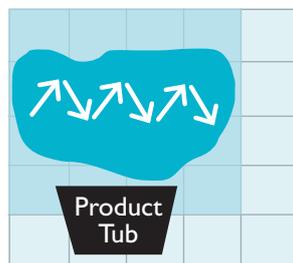
- » Adjust slightly for high and low temperatures outside 18–30°C. (Do not apply to substrates outside 5–38°C range).
- » Adjust slightly for high and low humidity. (Do not apply if humidity is greater than 90%.)
- » Prime porous vertical substrates before Microcote HPU application.
- » Store in cool, dry location out of direct sunlight. Acclimatise to room temperature before mixing.

## Roller application method



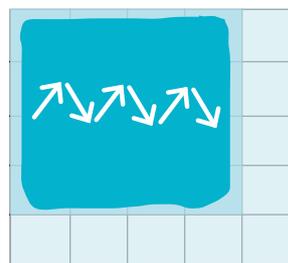
### Step 1

- » Select a 1m x 1m section for coating.
- » Place Product Tub between you and section to be coated.
- » Apply product to centre of section in a small 'W' motion.



### Step 2

- » Start spreading the product at the area you first started the 'W' in step 1, by pushing and pulling the product using an expanded 'W' motion.
- » Take care not to pool too much product at the end of each stroke.



### Step 3

- » Continue to expand product to fill the section by pushing and pulling the product in an expanded 'W' motion.
- » Take care not to pool too much product at the end of each stroke. Especially important on pushing stroke against walls or wet edges.



### Step 4

- » Finish the section by using a straight up and straight back stroke to smooth out the product in the section and blend with the edge already coated.
- » Your final stroke should overlap a previous section coated with the product.

## Application Details

Product	Wet Film Thickness	Dry Film Thickness	Pot life	Dry time to touch:	Dry time to handle:	Dry time to cure:
Microcote HPU Gloss	Vertical 100–125 microns Horizontal 150–200 microns	Vertical 60–75 microns Horizontal 90–120 microns	90 mins	6–8 hours	8–10 hours	2 days
Microcote HPU Satin	Vertical 100–125 microns Horizontal 150–200 microns	Vertical 55–75 microns Horizontal 80–114 microns	90 mins	2–3 hours	5 hours	2 days

**NOTE:** Accelerator will reduce pot life and dry time by up to 50%