

Reality Series



A Unique Pigment Range for Intrinsic Skin Coloration of Addition Cure Silicones

Spectromatch has developed a colouring range that will make skin matching quicker and easier than ever before. It enables improved levels of colour constancy under various lighting conditions and between different observers.

The Reality Series skin colouring system is formulated to reduce metamerism.

The Reality Series consists of thirteen base skin tones and four tints.

In combination with our Expert Series Flocks a greater variety of colour textures can be achieved.



Prosthesis viewed under daylight, tungsten and fluorescent respectively

Reality Series LSR

The pigments are supplied pre-dispersed in Technovent Ltd's M511 Rubber (Part A) for easier and quicker colour matching.

Each Reality Series pigment is added to the M511 Rubber at the precise pigment loading to give the final prosthesis a natural translucency.

Reality Series LSR colours are available in 50, 125 and 250gm pots.

A starter kit is available that consists of 50gm of each shade and a swatch guide.

Reality Series HCR

The pigments are supplied in gum like consistency for easier and cleaner dispersion into HCR silicones.

Each Reality Series pigment comes with pigment loading guides to help in obtaining natural translucency levels for any skin tone.

Reality Series HCR colours are available in 25 and 50gm pots. A starter kit is available that consists of 25gm of each shade and a swatch guide.

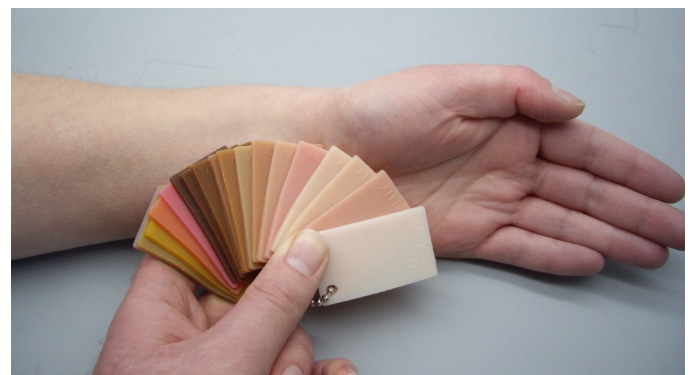
Using Spectromatch Reality

To start the colour match use the Reality Series swatch guide to select the closest base shade or shades to the patients skin tone.

Select the required flocks from our Expert Series to achieve the correct colour texture.

The colour should then be fine-tuned using the tints to push the colour in the required direction to achieve an optimum match.

As no primary colours are used there is a considerable reduction in the margin for error when adjusting a colour.



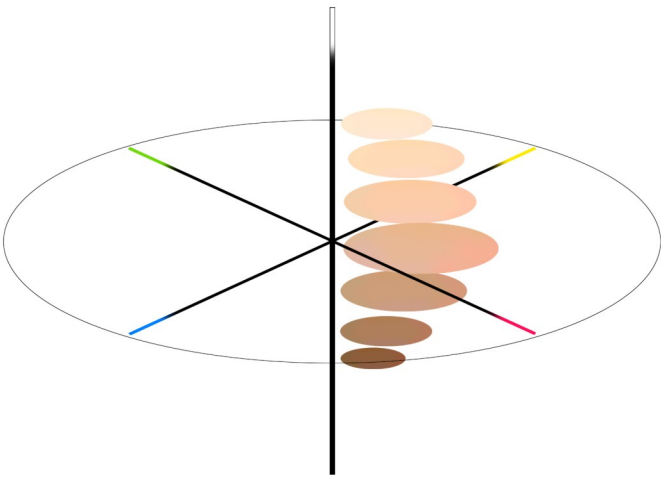
Base shade selection using the swatch guide

How does it work?

A database of hundreds of measured skin tones allowed us to observe how skin tones occupy colour space. This enabled us to select our base shades so that they produce accurate starting points for any skin tone.

Using our colour formulation algorithms to define optical properties we have formulated the tints necessary to achieve a match for any skin tone from any base shade. Using these tints reduces recipe sensitivity; therefore you are much less likely to under or overshoot when adjusting your colour.

Using our recipe prediction engine we have formulated the perfect blend for each Reality base shade from our Expert Series pigments. This allows us to mimic the optical properties of real skin so the match is maintained when viewed under different lighting conditions and by different observers, thus greatly reducing metamerism.



How skin colours occupy the CIE Lab colour space

Skin measurements made with a translucency probe have enabled us to derive the exact pigment loading levels required to achieve the most natural looking prosthesis for any skin tone.

Technical Information

- Our pigments are dispersed into a functional silicone base that will cure as part of the silicone system ensuring very stable coloration.
- All our pigments have been selected to have a high degree of light fastness.
- Our pigments are dispersed using a three roll mill enabling us to achieve homogenous pigment particle dispersion with no pigment agglomerates above 10um.
- Using the latest colour measurement technology we ensure a batch to batch colour consistency of <1 delta E (CIE de2000)
- Our tightly controlled manufacturing process guarantees consistent colour strength of +/- 1% enabling clinicians to formulate and reproduce their own recipes.
- Silicones coloured with our pigments can be cured at temperatures up to 110°C
- Custom colours are available on request please contact us for more information. Minimum order quantities may apply.
- All our colorants conform to EU Medical Devices Directives 93/42/EEC and 2007/47/EC, are classed as a Class 1 Medical Device Accessory and carry the CE mark.

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