

QuickWeigh

A new low sensitivity colorant range for use with Spectromatch skin colour matching systems that enables the quick and easy weighing of skin colour recipes with no loss of accuracy.

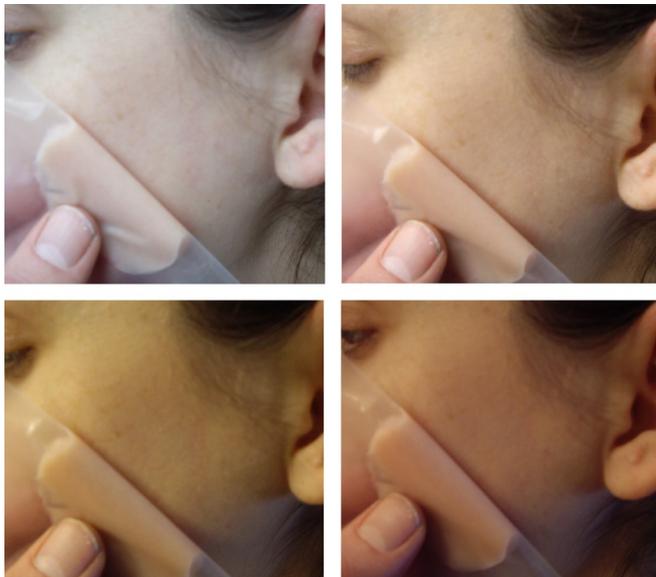
Easy speedy weighing

Weighing out recipes can be frustrating and time consuming as well as requiring very expensive balances and a controlled draught free environment.

By listening to our customers' needs we have produced a palette that not only saves huge amounts of time but also removes the need for expensive weighing equipment.

The benefits

The QuickWeigh series has been developed using Spectromatch technology and so benefits from levels of colour constancy under various lighting conditions thus effectively eliminating metamerism.



Colour match viewed under various light sources

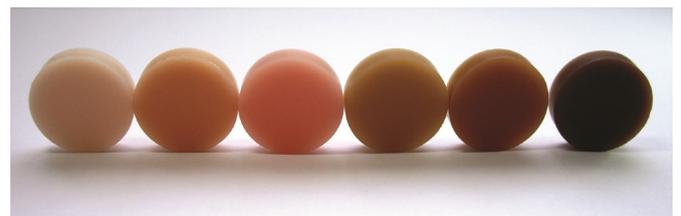


Mimic skin colour and appearance

Our approach to reproducing skin colour is holistic so QuickWeigh incorporates flock blends in order to match skin appearance as well as colour.

Many years of experience in pigment chemistry have enabled us to produce the most lightfast and stable colour formulations for the manufacture of medical prosthetics worldwide.

As a result of research in conjunction with practising clinicians, QuickWeigh colorant translucency delivers the most 'life-like' or 'real' looking prostheses.



Natural 'life-like' translucency levels

How does it work?

Some colorants can be very strong, difficult to use and prone to 'overshoot' when adjusting a skin colour match.

The power of a colorant to affect the overall colour of a recipe can be calculated and is known as colorant sensitivity. The sensitivity of a colorant depends on many factors including tinting strength, concentration and the colour of the recipe itself. A colorant may have high sensitivity in one recipe but low in another.

Colorants with low sensitivity are easier in use as they make the recipes more robust and less prone to dramatic shifts in colour when small changes are made in concentration.

Using our colour formulation algorithms to define the optical properties of our colorants, we calculate the sensitivity of each colorant on the overall recipe colour.



Low resolution weighing

The QuickWeigh series has been designed to reduce recipe sensitivity to such an extent that typically a batch of just 30g of material need only be weighed to an accuracy of 0.01g thus vastly reducing the time required to weigh a recipe. Thus any small weighing error will have little or no impact on the resulting overall colour.

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 <math><1 \text{ delta E (CIE de2000)}</math>
- Our tightly controlled manufacturing process guarantees consistent colour strength of $\pm 1\%$ enabling clinicians to formulate and reproduce their own recipes.
- Silicones coloured with our pigments can be cured at temperatures up to 110°C
- 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.



The QuickWeigh series enables clinicians to match any skin colour with accuracy, ease and speed.

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