

# APPLICATION INSTRUCTION

## Sika® ColorFlo® Liquid

### SIKA® COLORFLO® LIQUID IRON OXIDE PIGMENTS

Sika® ColorFlo® Liquid are pre dispersed iron oxide, titanium dioxide and chromium oxide pigments containing high pigment solids in an aqueous base liquid.

Sika® ColorFlo® Liquid is available in numerous standard colours as indicated in this Colour Chart using 1% to 4% liquid loading based on total cementitious material weight. (Cement, Lime, Fly Ash, GBBS).

### DISPENSING AND MIXING

Make sure the mixer is clean & has no washout water left in the mixer. Load mixer in accordance with the limits & tolerances as specified in AS 1379-2007, in order to maintain consistency. Caution should be taken to maintain the water to cement ratio at a level, so the concrete does not exceed 100mm slump. If the job requires higher slump, a water reducer or plasticiser can be used. For Ready-mixed concrete, Sika® ColorFlo® Liquid is added "up front" with gauging water, during batching. This ensures thorough dispersion of the Liquid Color. Under no circumstances is Liquid Color to be in contact with dry materials. Color variation may occur if batch proportion & slump are not maintained.

**DO NOT** use calcium chloride. This product may cause discolouration in the form of dark and light areas.

### ADMIXTURES

Sika® ColorFlo® Liquid may be combined with many other Sika Concrete Admixtures.

Important: Always conduct trials before combining products in specific mixes and contact our Technical Service Department for information and advice about any specific combinations.

### CONSTRUCTION GUIDANCE

The standard rules of good concreting practice, concerning production and placing, are to be followed. Laboratory trials shall be carried out before concreting on site, especially when using a new (changed) mix design or producing new concrete components. Fresh concrete must be cured properly and as early as possible. Many different types of surface finish can be achieved, formed concrete, form lined concrete, exposed aggregate finishes, trowelled finishes, brushed finishes, blast cleaned, mechanically tooled, pattern imprinted concrete or polished concrete. Shuttering/formwork should be selected to provide the required finish. The selection of formwork type will significantly affect the surface finish and the visual appreciation of the structure. It is essential that shuttering/formwork is well constructed and does not move during concreting. All joints should be grout tight to prevent leakages and honeycombing. Care should be taken during placement and compaction to ensure that the concrete remains homogeneous. Formwork should be cleaned immediately after use if it is to be reused. The selection of a suitable formwork release agent appropriate for the selected formwork type is important.

### CONCRETE CURING

Efficient curing of concrete is essential in any situation. It helps reduce the risk of cracking and enhances color and durability. A curing agent should be spray applied to the concrete at the earliest opportunity. Use a non-yellowing, UV-stable acrylic curing agent.

### LIMITATIONS

At a loading of 8% of Sika® ColorFlo® Liquid based on the weight of total cementitious material used is the color saturation point. Color added in excess of 10% will not provide additional benefits and can reduce the overall strength of the concrete. Conversely, a level of colour below 1% loading can cause irregular coloring and a general "washed out" appearance.

**NOTE:** Use of Fly Ash, GBBS in colored concrete should be monitored for color consistency.

Colour shade achieved is influenced by many factors including, cement, Secondary Cement Materials (SCM), aggregate, water content, admixtures and additives used in the concrete. Mix design should be fixed for the duration of the project.

Trial elements should be produced simulating techniques agreed for construction. Trial elements should be a minimum 2 m x 2 m in dimension. Avoid the use of calcium chloride or additives containing chlorides. These products can cause discoloration in the form of light and dark areas in the finished concrete. Do not fog with water or cover surface during the initial curing process for at least 24 hours. Make sure the depth of a "brush finish" remains the same throughout the entire project. Do not wet the brush between strokes.

### LIMIT OF WARRANTY AND LIABILITY

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika® reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request. Colours viewed digitally, may not reflect true finish of product. Product trials are recommended.



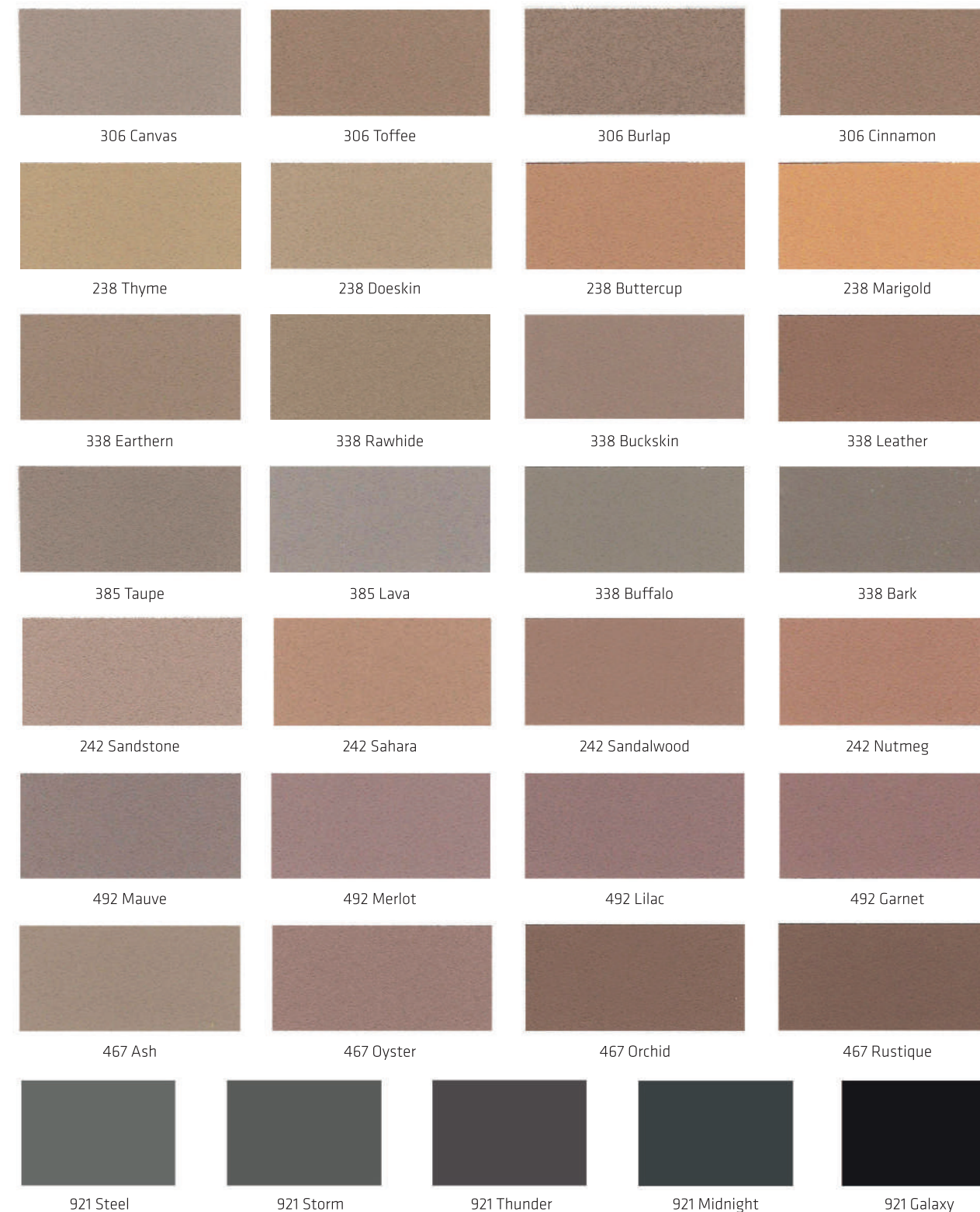
## CONCRETE Sika® ColorFlo® Liquid COLOUR CHART AUSTRALIA

# Sika® ColorFlo® Liquid COLOUR CHART

In Partnership with Solomon Colors



**DISCLAIMER:** Viewing colour chart by electronic and/or other media is not a true indicator, and may vary onsite. this chart is a **guide only**.



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