

# CHEMICAL PLANT & ENGINEERING

## TEXTURED FINISHES IN BUILDING / ARCHITECTURE

### APPLICATIONS

Complete and accurate dispersion of colours and pigments has previously presented a challenge to the cement and building industry.

The extensive use of colours and textured finishes in a wide range of applications, makes the accuracy of mix critical for the suppliers and applicators of these products.

### BACKGROUND DATA

In order to achieve the desired outcome of fully dispersed and developed colours, Chemical Plant & Engineering utilizes paddle type mixing technology. This offers a unique fluidising system and quick volume changeovers as the product is transported around the mixer body. Combine this with a high efficiency cutting system for pigment development and you have **mix quality** and **mix time** outcomes that have the potential to significantly reduce batch cycle whilst increasing plant performance.

### RESULTS

Typical results produced in laboratory trials and confirmed through in plant verification.

- Mix time reductions of up to 90%
- Not affected by large differences in bulk density
- No loss of mix homogeneity or pigment dispersion rates
- Absolute repeatability
- No streaking

### FEATURES & RECOMMENDATIONS

The most important feature of this technology is that it is totally independent of the mixing enclosure. Whilst results do vary depending on the type of mixer body, this system can be applied to an existing unit or installed as original equipment from one of CPE's bulk mixer product lines.

A single paddle mixer is recommended for optimum mixing performance with this application. These mixers are available in 85 litres to 5400 litres. CPE has also retrofitted this technology into a ribbon blender body.

Chemical Plant & Engineering has test facilities in a fully equipped laboratory in Melbourne, alternatively, test units (85 litre capacity) are available for on-site trials.



Ingredient before mixing - consisting of colour, hardener, and aggregate, particles 600-2000 um.



Ingredients after mixing



No streaks after test

### CHEMICAL PLANT & ENGINEERING

A division of CEM International Pty Ltd  
A.C.N. 004 933 135 ABN 24 004 933 135  
63 - 65 MAFFRA STREET, COOLAROO VICTORIA 3048  
P.O. BOX 160 DALLAS VICTORIA 3047 AUSTRALIA

Tel: +61 3 9309 4822  
Fax: +61 3 9309 0069  
Web: [www.cem-int.com.au](http://www.cem-int.com.au)

