

# HOT WEATHER WORKING

## INTRODUCTION

The following are guidelines for the usage of Flexcrete cement based mortars and coatings and decorative coatings in hot weather, but are subject to the discretion of the engineer on site.

## GENERAL

1. Thoroughly soak concrete substrates with clean cold water until fully saturated. Remove excess water.
2. In extreme conditions continuous rewetting of the surface may be required to stop absorption and reduce the substrate temperature.
3. Re-wet the substrate as above immediately prior to applying Flexcrete materials.
4. On floor areas flood the surface with clean water the night before application.
5. Avoid working in direct sunlight. Construct temporary shelter or work during the cooler parts of the day (early morning, evening or overnight under flood lights).
6. Store the products at a cool temperature well in advance of use, to extend working life when mixed.
7. Keep mixing and application equipment in shade, away from heat.
8. Use mixed materials immediately. Mix only sufficient material that can be placed within the working life of the material. Avoid mixing large quantities. High application temperatures can greatly reduce the working life of cementitious products.
9. Where applicable apply **FLEXCRETE CURING MEMBRANE WB** liberally to the surface immediately after the application of the cement based mortar or cementitious coating. In extreme conditions apply a second coat.

## CEMENTITIOUS COATINGS

1. If facilities are unavailable to store products in an air-conditioned container or room, cool down the liquid, Part A, by storing on ice in a suitably large container. **DO NOT FREEZE.**
2. Apply whilst the temperature is falling. Rising temperatures can cause vapour drive, particularly in concrete slabs, resulting in pin holing or blistering of thin section applications.
3. High temperatures and high winds can cause the coatings to skin very quickly.

## MORTARS AND FAIRING COATS

1. Use cold water (not ice) for mixing. Use cool water for **FASTFILL**, rapid setting mortar, very cold water (< 6°C) will shorten working life and accelerate set.
2. Use upper water limit indicated on the data sheet.
3. Apply an key coat working well into the substrate to maximise adhesion. Proceed immediately with the application, do not allow the key coat to dry.
4. Continually dampen application equipment to keep cool.

## TOP TIPS

1. When applying anti carbonation coatings high temperatures and high winds can cause rapid skinning. If using reinforcement, work in small areas to enable embedment before skinning occurs.
2. The following are indicators of high temperature problems and require improved protective measures as outlined previously or re-scheduling of work to a cooler part of the day.
  - Ultra fast drying of screeds, mortars and fairing coats resulting in crumbling and lack of adhesion to the substrate.
  - Rapid skinning of cementitious coatings and poor retention of wet edge.
  - Rapid drying and cracking of cementitious coatings.
  - Difficulty spreading mixed material and strong drag.
  - Random lump formation in the material due to polymer coagulation.
  - Ultra short pot life of mixed material.



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