



CONSTRUCTION CHEMISTRY

NOTE 1 : Expancote* CM210 will bridge an existing crack of up to 0.5 mm in width.

NOTE 2 : UV test required coating to be exposed to 4 hrs. condensation at 50°C followed by 4 hrs. UV light at 50°C. Total exposure time was 5,000 hours.

Instructions for use

Preparation

All surfaces which are to receive the coating, must be free from oil, laitence, grease, wax, dirt or any other form of foreign matter which could affect adhesion. Typically, concrete surfaces can be cleaned using high pressure water jet or grit blasting. Spalled surfaces or those containing large blowholes, cracks and other such defects up to 10 mm depth, should be repaired using Expanmortar FC For further advice on suitable repair mortars for larger scale repairs, contact the local Expanchem office.

Mixing

Expancote* CM210 liquid should be poured from the plastic container into the metal drum provided. For brush application consistency mix with a slow speed drill (500 r.p.m.) fitted with a Expanchem Mixing Paddle.

The powder component should be added gradually to the liquid to avoid lump formation and mixed for 2 to 4 minutes.

Expancote* CM210 should be immediately used after mixing. Do not mix more material than can be used within the pot life. Keep mixing Expancote* CM210 during the application.

Application

Application of Expancote* CM210 on hot substrates (i.e. over 40°C surface temperature) will need the prior application of a primer coat. Mix Expancote* CM210 and water in slurry like consistency and apply Expancote* CM210 over the primer whilst it is still wet.

For best results, surfaces should be damp. In order to obtain the protective properties of Expancote* CM210, it is important that the correct rates of application are observed.

Use a short stiff brush (preferably 120 - 200mm width) and apply in one or two coats as required.

Spray applications should use the correct mixing ratio to obtain satisfactory consistency. In hot climatic conditions, it is likely that spray application will be the best for exterior decorative finishes. Nozzle size should be 3-4mm and pressure of 6-8 bars should be used.

It is recommended that for general resurfacing each coat should be 1mm thick. Areas subjected to light foot traffic should receive at least 2mm thickness of Expancote* CM210 and an additional 2mm should be applied if conditions are moderate to heavy pedestrian traffic.

If in doubt about the condition of the substrate, the local Expanchem office should be consulted.

Cleaning

Expancote* CM210 should be removed from tools and equipment with clean water immediately after use. Hardened material can be removed mechanically.

Limitations

Where subsequent coatings or paints are required, trials should be conducted to ensure compatibility. For further advice, consult the local Expanchem office.

Expancote* CM210 should not be applied if the air or substrate temperature is greater than 45°C. This may result in different colour shades.

Expancote* CM210 should not be applied if the temperature of the substrate is below 5°C.

Expancote* CM210 should not be applied where there is a likelihood of exposure to frost within 48 hours of the application.

Expancote* CM210 should not be applied in windy conditions where early-age dust adhesion may occur, or where rain is likely within 2 hours at 20°C or 20 hours at 5°C (up to 80% RH).

Technical support

Expanchem offers a comprehensive technical support service to specifiers, end users and contractors. It is also able to offer on-site technical assistance, an AutoCAD facility and dedicated specification assistance in locations all over the world.



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Estimating

Supply

Industrial kit	: 16 kg pack consisting of:
Powder	: 11.00 kg bag
Liquid	: 5.00 kg pail

Coverage

Expancote* CM210 : Theoretical 1.85 Kg. / m² @ 1mm thickness - Coverage figures given are theoretical, due to wastage factors and the variety and nature of possible substrates, practical coverage figures will be reduced.

Storage

Shelf life

Combined products have a shelf life of 6 months if kept in a dry store in the original, unopened packs.

Storage conditions

Store in cool, dry conditions, away from sources of heat and naked flames, in the original, unopened packs. If stored at high temperatures and/or high humidity conditions the shelf life will be reduced. Expancote* CM210 liquid component should be protected from frost.

Precautions

Health and safety

Expancote* CM210 contains cement powders which, when mixed or become damp, release alkalis which can be harmful to the skin. During use, avoid inhalation of dust and contact with skin and eyes. Wear suitable protective clothing, gloves, eye protection and respiratory protective equipment. The use of barrier creams provide additional skin protection. In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately – do not

Fire

Expancote* CM210 components are non-flammable. For further information, refer to the product Material Safety Data Sheet.

*Denotes the trademark registered.

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Important note

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