

CONCRETE CURING COMPOUND FRACURE EMULSION 3109

TECHNICAL DATA

1.0 DESCRIPTION

FRACURE EMULSION 3109 is a water-based emulsion curing compound. When applied to newly poured concrete FRACURE EMULSION 3109 quickly dries to form a tough wear resistant film with low water vapour permeability. By reducing evaporation from the concrete surface, the water necessary for cement hydration is maintained. This allows the maximum development of compressive and tensile strength in the finished concrete and results in a more durable surface with lower permeability and reduced or no dusting.

2.0 PHYSICAL PROPERTIES:

2.1	Colour	Milky White (dries to a transparent film)
2.2	Specific Gravity	1.03 (± 0.05)
2.3	Flashpoint	Non-Flammable
2.4	Viscosity	Low (Sprayable)
2.5	Toxicity	Non-toxic (see SDS for details)
2.6	D.G. Classification	Non-Hazardous
2.7	Shelf Life	1 Year in original unopened containers as supplied stored above 7°C
2.8	Coverage	5 – 7m ² per litre
2.9	Application Temp.	Do not apply when the temperature of the concrete is less than 7°C.

Specification:

FRACURE EMULSION 3109 exceeds the moisture retention requirements of ASTM C309-97 when applied at 5m² per litre (conformance testing completed by BRANZ).

3.0 USES

- 3.1 FRACURE EMULSION 3109 is suitable for use on all concrete surfaces. All exposed elements of a structure subject to water loss due to evaporation will benefit from treatment. These include floor slabs, columns, beams, walls, precast panels etc.
- 3.2 FRACURE EMULSION 3109 is compatible with most water-based plaster and paint finishing systems and having good U.V. and alkali resistance, will remain sound during construction until such finishes are applied. This aspect should be considered carefully before FRACURE EMULSION 3109 is used.

4.0 APPLICATION INSTRUCTIONS

- 4.1 FRACURE EMULSION 3109 can be applied by brush, roller or spray. Application tools must be free of any other previously applied material. Aim for an even film and avoid pinholes which can allow undesirable moisture loss. Uniform application is best obtained by spraying half the recommended quantity in one direction over the whole work and the remainder at right angles to the original coating.
- 4.2 Apply to exposed concrete surfaces as soon as the sheen of moisture brought to the surface by final screeding or trowelling has disappeared, but while the concrete is still damp. If brushes are used and the concrete is still wet enough to be marked by the brush it is too early to apply the curing compound. This timing is important for satisfactory curing.

FRACURE EMULSION 3109

TECHNICAL DATA Continued

- 4.3 If a delay is unavoidable moisten the concrete by light spraying until the surface will not readily absorb more water, allow the sheen to disappear and apply FRACURE EMULSION 3109.
- 4.4 Saw cuts should be treated with FRACURE EMULSION 3109 immediately after cutting as significant moisture loss can occur in these areas. Check for compatibility with joint sealants, if they are to be used.
- 4.5 For curing previously boxed columns etc, spray with water as soon as formwork is removed and then apply FRACURE EMULSION 3109.
- 4.6 Clean up equipment with water before the FRACURE EMULSION 3109 dries.

5.0 PRECAUTIONS

Do not apply solvent-based products over FRACURE EMULSION 3109.

Do not apply FRACURE EMULSION 3109 to dry concrete.

Do not apply FRACURE EMULSION 3109 over previously coated surfaces.

Do not apply FRACURE EMULSION 3109 to concrete treated with silicate or similar surface hardeners.

Do not cast concrete off surfaces cured with FRACURE EMULSION 3109 except when DISCRETE EMULSION is used as the release agent. Contact Stratmore Construction Solutions Ltd for details before use.

DO NOT allow this product to be exposed to ambient temperatures lower than 7°C. If this should occur, the product may become unusable. Check the product by applying a small quantity to a smooth surface and ensure it is of an even consistency and that it dries to a hard film. Store containers in a location that is not subject to low temperatures. Keep away from frost. Frozen material is destroyed and unusable.

Subsequent coatings should not be applied over FRACURE EMULSION 3109 without checking with the manufacturer or supplier of the coating system for compatibility.

Wear resistance of the dry FRACURE EMULSION 3109 film is related to the thickness of the film, the type of traffic and end-use conditions of the treated surface. A thicker film (lower spreading rate) will provide more wear resistance than a thin film.

If it is necessary to remove FRACURE EMULSION 3109 from the concrete surface at a later date, evenly distribute clean, dry fine silica sand onto the surface. Use a commercial floor scrubber fitted with a synthetic abrasive pad and lightly sand the FRACURE EMULSION 3109 until it is removed. Use care – avoid scratching or abrading the concrete surface. Remove all traces of the sand together with the abraded FRACURE EMULSION 3109. Complete removal of the material may not be possible.

6.0 PACKAGING

20 litre pails and 210 litre drums.



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