

Cureflex TT77

Flexible Tile Adhesive

The information contained within this Technical Data, details product description, health and safety hazard information of the product and how to safely handle and use the product in the workplace. Also refer to MSDS for more information. Each user of this product should read the MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Demtech Australia Pty Ltd. Demtech Australia Pty Ltd makes no representation as to the completeness and accuracy of the data contained in this data sheet. It is the user's obligation to evaluate and use this product safely, and to comply with all relevant Federal, State and Local Government laws and regulations. Demtech Australia Pty Ltd shall not be responsible for loss, damage or injury resulting from reliance upon or failure to adhere to any recommendation or information contained herein, from abnormal use of the material, or any hazard inherent in the nature of the material.

STATEMENT OF HAZARDOUS NATURE

Classified as Hazardous. Non Dangerous Goods according to criteria of NOHSC & ADG Code.

IDENTIFICATION

Product name	Cureflex TT77 - wall and floor tile adhesive
Other names	None
UN Number	None assigned
Dangerous goods class	None assigned
Subsidiary risk	None assigned
Shipping name	None assigned
Hazchem code	None assigned
Poisons schedule number	None assigned

DESCRIPTION

Cureflex TT77 wall and floor tile adhesive is a new generation high performance cementitious, "micro fibre technology", powdered composition designed for bonding two separate substrate and/or surfaces. It contains reinforced natural and acrylic fibres and high quality modified polymers designed to withstand high levels of stress, movement and shear strain. It provides good adhesion, flexural strength and excellent compressive strength, as well as excellent workability, spreadability and cleaning. It is used in both interior and exterior applications and suits most substrates. Cureflex TT77 offers an extended open time for up to 1 hour, providing easy mixing, no slump or shrinkage while maintaining optimum strength and flexibility.

MAIN USES

Designed to provide superior adhesion between two substrate surfaces. TT77 is a flexible, cementitious and high performance wall and floor tile adhesive for the installation of various tiles, stone, porcelains, masonry, Hebel blocks and panels and a wider range of other substrates such as screeds, slabs, renders, particle board, AC sheeting, plaster board, acoustic underlays, over floor heating elements etc (*see manufacturers recommendations*)



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PHYSICAL DESCRIPTION AND PROPERTIES

Appearance	Grey or white powdered mixture
Compressive strength	17.6 MPA (28 days)
Flexural strength	10.1 MPA (28days)
Bond strength	1.03 MPA (28 days)
Setting times	8 - 24 hours
Working time	(E) E Extend Open Time - 60 min.
Adjustability time	30 - 40 min.
Application temperatures	Not less 5 °C and over 35 °C
Classification	AS 4992.3-2004

COVERAGE

Thickness – Notched Trowel Size	Area M ² per 20kg bag
6mm	8m ²
8mm	7m ²
10mm	6m ²
12mm	5m ²
15mm	3-4m ²

NOTE: Coverage may vary depending on substrate surface conditions, temperatures and moisture content. Test trials undertaken using new notched trowels held at 45° angle. Surface temperature at 15 °C and air temperature at 20 °C. Measurements are approximates only based on 1 x 20kg bag.

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PREPARATION AND APPLICATION

Surface preparation All surfaces must be clean, dry and free from any contaminants such as dust, oil, wax, grease, curing agents or other substances that may affect adhesion performance. Building debris such as off cuts, sawdust, nails, screws, plaster, wood etc., must be thoroughly cleaned with the aid of a broom, vacuum cleaner, damp sponge.
Note: If applying over existing tiles various preparation methods apply depending on application. It is recommended to contact Technical Support on 1300 300 090 for advice and instructions. Do not apply over any deteriorating substrates. Ensure that new concrete slab have fully cured 7 - 14 days during warmer temperatures or 14 -28 days during colder temperatures. Ensure that screeds have cured, normally after 7 days depending on screed thickness and temperatures. Ensure waterproof membranes have cured, minimum 24 – 48 hours after application.

Priming	<p>Porous Substrates: Prime with Cureflex PG57 Primer using brush, broom or roller. Allow primer to reach a touch dry film prior to applying Cureflex TT77. Do not over dilute primer. Mix 1 part of Primer to 3 parts clean water. Extremely porous surfaces may require second coat. Non Porous Substrate: Prime using Cureflex LS151 Resurfacing Primer - undiluted.</p>
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Mixing	<p>Use only clean tap/rain water to mix Cureflex TT77 powder. Pour approximately 4L of water in a clean container and gradually add 20 kg of Cureflex Tile adhesive whilst mixing. Using a mechanical mixer at medium to high speed, mix powder and water together until smooth paste consistency is achieved. Allow to set a few minutes, re-mix before applying.</p>
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Curing	<p>Adhesive begins to set after an hour and is trafficable approximately 4-6 hours (longer if temperature do not exceed 10°C) after installation depending on air & substrate temperatures. Grouting generally is best 24 hour after tiles have been installed. Optimum performance level is reached after 28 days of curing.</p>
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Application	<p>Spread Cureflex TT77 adhesive over prepared surface and/or substrate using an appropriate notched trowel. When installing wall and floor tiles, lay one tile over adhesive then lift tile up again. Inspect the underside of tile for complete bedding adhesion. Tiles must be well bedded eliminating any voids. Do not 'butt join' tiles. Ensure minimum grout joints of 1.5 – 3 mm spacing between tiles. Larger joints required for quarry or stone tiles. Refer to tile manufactures specifications. Tile installation must be undertaken in accordance with AS3958 Australian Standard requirements.</p>
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Precautions	<p>To avoid skinning, ensure to spread adhesive in smaller section at a time during warmer conditions, avoid wind drafts and direct sun applications. Ensure surface of adhesive is tacky prior to bonding. Do not apply in areas that are subject to permanent wetting or totally submerged in water such as ponds or swimming pools.</p>
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PREPARATION AND APPLICATION cont...

Substrates	Compatible with most solid substrates such as concrete, masonry, plaster board, fibrous cement sheeting, renders and screeds. All substrates should be pre-tested to ensure suitability.
Clean up	Clean tools with water. For best results clean tiles and other surfaces with damp sponge whilst adhesive is fresh.

HEALTH HAZARD INFORMATION

This product is hazardous according to health criteria of NOHSC Australia, but not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail.

Health Effects

Chronic	Due to cement content, long term exposure to high dust concentrations may cause irritation to lungs and result in breathing disorders, as cement and silica are classified as carcinogenic. Contact with skin, inhalation of dust, vapour ingestion in any form should be avoided. Sensitisation may result in allergic dermatitis responses including rash, itching, swelling of extremities, redness and irritation. Principal routes of exposure are by accidental skin and eye contact and by inhalation of dusts. As with any powdered chemical product, contact with unprotected bare skin; inhalation of dusts in work place atmosphere; or ingestion in any form, should be avoided by observing good occupational work practice.
Swallowed	Material is irritating and mildly corrosive if swallowed. Ingestion may result in nausea, abdominal irritation, pain and vomiting.
Eye	Prolonged exposure may cause eye irritation or burning and may cause conjunctivitis.
Skin	Prolonged exposure may result in slight skin irritation and or drying and may lead to dermatitis or may cause sensitisation.
Inhaled	Excessive exposure to dusts can cause damage to health and lungs slight irritation to eyes, nose and throat. Dust is irritating to upper respiratory tract and lungs. Over exposure to irrespirable dust may cause coughing, wheezing and irritation to the nasal passages.

FIRST AID

Swallowed	Rinse mouth then provide water slowly. If poisoning occurs, seek medical assistance immediately, contact doctor or poisons information centre. Do not induce vomiting. Material highly irritating and mildly corrosive if swallowed.
Eye	Immediately flush with large amounts of water for at 5-10 minutes; lifting upper and lower lids. Seek medical attention if irritation persists.
Skin	Wash with water and soap. Seek medical attention if irritation persists.
Inhaled	If affected, move subject to fresh air. Seek medical assistance if symptoms persist.
First Aid Facilities	Ensure availability of eye wash fountains and/or water access.
Advice to Doctor	Treat symptomatically.

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PRECAUTIONS FOR USE

Personal Protection

Respirator type (AS/NZS 1716)	Where concentrations in air may exceed the recommended exposure limits, or work practice or other means of exposure reduction are not adequate, approved respirator may be necessary to prevent overexposure by inhalation.
Glove type	Neoprene/rubber gloves.
Eye protection	Safety glasses as appropriate.
Clothing	Protective clothing to cover body parts, e.g. long sleeved overalls or similar; and boots.
Other	Wash hands before smoking, eating, drinking or using the toilet and after finishing work. Observe the usual precautions when handling chemicals.
Flammability Fire Hazards	Product is non flammable according to the Australian Code for the Transport of Dangerous Goods.

SPILLS & DISPOSALS

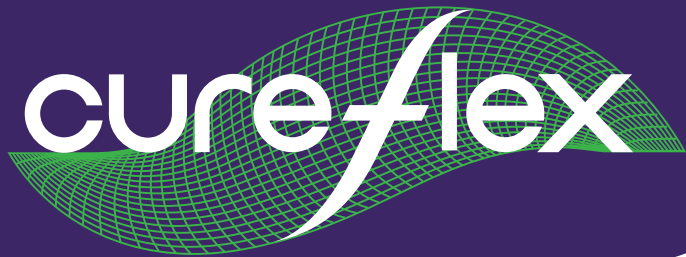
Clean up spills	Do not contaminate streams, rivers, or water courses. Do not flush down drains & sewers. Inform local authority if product enters drains, sewers, streams, etc. Sweep and wipe all trace elements.
Disposal	Dispose of in accordance with local, state and federal regulations.
Precautions for clean up crew	Nitrile rubber or PVC gloves, safety glasses and respirator.

FIRE / EXPLOSION HAZARDS

Hazard of use and storage	Non-combustible, not considered a fire risk.
List of dangerous decomposition or combustion products	None
Types of extinguisher	No restriction listed - water, foam, CO ² and dry chemical.
Precautions	Fire fighters should wear self-contained breathing apparatus.
Protective clothing	None
Reactivity	None

OTHER INFORMATION

Ecology	Avoid contaminating waterways and sewers.
Packaging and labelling	Poly-lined valve bag to be stored as per manufacturers recommendation
Precautions for use	None assigned
Reactivity data	N/A
Toxicity data	N/A



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CONTACT POINT

Technical Department

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Australia Poisons Information Centre

13 11 26

Police & Fire Brigade

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General

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