



PCM17 2-PART

Polymer Cementitious Membrane

Cureflex PCM17 is a fast drying two-part waterproof membrane that is suitable for a wide range of waterproofing applications. It consists of Part A (liquid) and Part B (dry powder).

Cureflex PCM17 uses a new technique in 'cross-collateralisation' in powdered polymer technology (PPT), providing outstanding adhesion properties over a variety of building substrates such as concrete, masonry, Hebel panels, renders, compressed sheeting, cement sheet underlays, villa board, cement based compounds and all grade plaster board. Cureflex PCM17 also offers excellent surface adhesion properties for typical overlaid finishes such as screeds, renders and tile adhesives.

Cureflex PCM17 is a Class III membrane that complies with the AS/NZS 4858:2004 and exceeds the AS3740 requirements set out under "Waterproofing Wet Areas in Residential Buildings" codes. Tested and approved by CSIRO Technical Assessment No 349.

Product Features

- Will not re-emulsify - engineered to withstand ponding and permanent wet conditions
- Non hazardous, solvent free and odour free (VOC level <47ppm)
- Provides exceptional flexibility and elongation properties
- Holds weight over vertical and horizontal substrates during application
- Compatible with tile adhesives, screeds and masonry renders
- Suitable for internal and external applications

Typical Applications

- Wet areas and shower alcoves
- Terraces, balconies, porches, patios, podiums and deck areas
- Swimming pools, water features, and ponds
- Facades, retaining walls and planter boxes
- Water tanks and general water storage areas





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The information contained within this MSDS details health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user of this product should read this 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

Not classified as hazardous according to criteria of Worksafe Australia.

IDENTIFICATION

Product Name	2 Part PCM-17 polymer cementitious membrane
Other Names	None
UN Number	None
Dangerous Goods Class	None assigned
Subsidiary Risk	None assigned
Shipping Name	None assigned
Hazchem Code	None assigned
Poisons Schedule Number	None assigned

DESCRIPTION

Cureflex 2PART PCM-17 is a fast drying 2PART waterproof membrane that is suitable for a wide range of waterproofing applications. It consists of Part A (liquid) and Part B (dry powder). Cureflex - 2PART PCM-17 uses a new technique in "Cross-Collateralisation" in Powdered Polymer Technology (PPT), which provides outstanding adhesion properties over a variety of building substrates such as; concrete, masonry, Hebel panels, renders, compressed sheeting, cement sheet underlays, villa board, cement based compounds and all grade plaster board. Cureflex 2PART PCM-17 also offers excellent surface adhesion properties for typical overlaid finishes such as screeds, renders and tile adhesives.





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PHYSICAL DESCRIPTION / PROPERTIES

Appearance	Light grey
Compressive Strength	-
Flexural Strength	-
Bond Strength	1.7MPa (to concrete)
Setting Time	5-7 hours (dry film)
Working Time	60 minutes
Application Temperatures	Above 5 °C and below 30 °C (surface temp)
Coverage	1.5L per m ² for general areas. 2L per m ² for immersed areas
Classification	Class 11

PREPARATION / APPLICATION

Surface Preparation	Clean the substrates. Surfaces must free of contaminants or foreign material. Ensure substrate is sound and free of any loose or unsecured areas prior to application
Priming	Surfaces to be primed using Demtech proprietary primers. For porous surfaces use Cureflex PG57 Primer. For non porous surfaces use Cureflex LS151 Primer.
Mixing	Cureflex PCM-17 is formed by mixing 1kg of Part A liquid to 1kg of Part B dry. Use an electric stirrer with paddle and mix until a smooth, lump free consistency is formed.
Curing	Recoat: 1-3 hours Dry film: 5-7 hours Tile/toppings over: 24 hours Immersion: 21 days
Application	Cureflex PCM-17 requires a suitable bondbreaker at substrate junctions. Flexiban Joint Bandage or RF webbing tape is recommended as a semi-rigid joint bandage. Apply with brush, roller or sprayer. Recommended coverage will differ based on application use: General waterproofing - minimum 1.5mm dried film thickness is required - 1L/1.25kg/m ² per mm layer thickness. Immersed applications a thickness of 2mm is required - 1L/1.25kg/m ² per mm layer thickness
Precautions	Not to be used as an exposed membrane coating in areas subject to UV. Not to be used in areas subject to negative hydrostatic conditions. Do not apply when rain is imminent. Do not apply when surface temperatures are below 5 °C or above 30 °C All finished coatings over this membrane are to be water based and solvent free. Polymer modified cement based adhesives and enhanced toppings to be used directly over. It is recommended membrane is tiled within 21 days of application.



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PHYSICAL DESCRIPTION / PROPERTIES

Substrates	Substrate surfaces must be clean, free of gypsum and foreign matter including oil and wax residues. Surfaces must be in a sound and stable state prior to commencing the application.
Clean Up	Clean up with water while wet. Once dried the product will need to be mechanically removed.

HEALTH HAZARD INFORMATION

Health Effects <i>Chronic:</i>	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 is now 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, redness and irritation. Principal routes of exposure are by accidental skin and eye contact and 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 drink 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.
Eye Protection	Safety glasses
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.

SAFE HANDLING INFORMATION

Storage and Transport

Location	Store in a dry cool area to prolong storage life.
Temperature Conditions	Best stored at room temperature; Prevent from freezing.
Protection from Weather	Store undercover and away from heat sources, water and electric plant.
Storage Incompatibilities	Store undercover and away from heat sources, water and electric plant.

Spills and Disposal

Clean Up Spills	Clean up with water. Use solvent cleaners if product has dried. Do not contaminate streams, rivers, or water courses. Do not flush down drains and 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 and Explosion Hazard

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



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OTHER INFORMATION

Ecology	Avoid contaminating waterways and sewers.
Packaging and Labelling	Dry powder 15kg poly lined valve bag stored in empty mixing bucket. Liquid additive 10kg Pail.
Precautions for use	No special precautions
Reactivity data	None
Toxicity data	None

CONTACT POINT

Technical Department	Demtech Australia Pty Ltd (ABN: 91 131 136 706) 16 Logis Blvd, Dandenong South VIC 3175 Australia www.demtech.com.au Support: 1300 300 090
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Australia Poisons Information Centre	13 11 26
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Police & Fire Brigade	000
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General	The information contained herein is based on present state of our knowledge and does not guarantee certain properties. Recipients of our products must take responsibility for observing laws and regulations. The information contained within is published free of charge in good faith and is based on technical data that Demtech Australia Pty Ltd considers to be reliable.
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Disclaimer	The information within is intended for use by skilled and/or persons with technical knowledge. They are required to make their own assessment and use the product at their own risk and discretion. Information contained in this product sheet conforms to the standard detail recommendations and specification for the use of Demtech Australia products as of the date of this document. Demtech Australia Pty Ltd make no other warranties and assumes no liability, expressed or implied.
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To ensure that you are using the most complete and up to date information, contact Demtech Australia Pty Ltd.



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Polymer Cementitious Membrane

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

Not classified as hazardous according to criteria of Worksafe Australia.

IDENTIFICATION

Product Name	2 Part PCM-17 polymer cementitious membrane
Other Names	None
Manufacturer's Product Code	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
Major recommended uses	Wet areas and shower alcoves, podiums, terraces, balconies and deck areas, water features, swimming pools and fish ponds, facades, retaining walls and planter boxes, water tanks and general water storage areas,





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IDENTIFICATION Cont.

Physical description and properties

Appearance	Light Grey (mixed)
Boiling Point (°C)	N/A
Vapour Pressure	N/A
Volatile Component	<42ppm (liquid component)
Specific Gravity	N/A
Flashpoint (°C)	N/A
Viscosity	-
Solubility in Water	Completely miscible

Other properties

Evaporation Rate	N/A
Vapour Density	N/A
Form	Powder and liquid
Stability	Stable
Hazardous Polymerisation	Will not occurs
Materials to avoid	Strong acids and oxidizing agents

INGREDIENTS

Chemical Name:	CAS Number:	Proportion:
Alkyl acrylate-styrene copolymer	-	56-58%
Water	7732-18-5	42-44%
Ivory cement/portland cement	65997-1-15	10-20%
Washed Sand		60-70%

Contents: High >60% - Medium 10 – 60% - Low 1 – 10% - Very Low <1%

* Other ingredients determined not to be hazardous, including water, to 100%.



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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 (ADGCode) for transport by Road and Rail.

Health Effects

Acute:	
Swallowed	No data supplied; but polymer is not expected to be harmful.
Eye	May be an eye irritant
Skin	Prolonged or repeated contact with skin may result in slight skin irritation.
Inhaled	Excessive exposure to vapours or spray mist may cause slight irritation to eyes, nose and throat.
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.



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HEALTH HAZARD INFORMATION Cont.

First Aid

Swallowed	Rinse mouth then drink 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.

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.



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SAFE HANDLING INFORMATION

Storage and Transport

Location	Store in a dry cool area to prolong storage life.
Temperature Conditions	Best stored at room temperature; prevent from freezing.
Protection from Weather	Store undercover and away from heat sources, water and electric plant.
Storage Incompatibilities	N/A

SPILLS AND DISPOSAL

Clean Up Spills / Leaks	Clean up with water. Use solvent cleaners if product has dried. Do not contaminate streams, rivers, or water courses. Do not flush down drains and 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 / 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



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OTHER INFORMATION

Ecology	Avoid contaminating waterways and sewers.
Packaging & Labelling	Dry powder 15kg poly lined valve bag stored in empty mixing bucket. Liquid additive 10kg Pail.
Important Notes:	Polymer modified cement based tile adhesives are recommended for direct adhesion to the membrane. When applying screeds and renders directly over membrane, Acrylic or SBR bonding agents are recommended. Mixed membrane pot life approx. 1 hour in normal ambient conditions of <23 °C.
Drying Times	Recoat 1-3 hours Dry film 5-7 hours Immersion 21 days

CONTACT POINT

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Disclaimer	<p>The information within is intended for use by skilled and/or persons with technical knowledge. They are required to make their own assessment and use the product at their own risk and discretion. Information contained in this product sheet conforms to the standard detail recommendations and specification for the use of Demtech Australia products as of the date of this document. Demtech Australia Pty Ltd make no other warranties and assumes no liability, expressed or implied.</p> <p>To ensure that you are using the most complete and up to date information, contact Demtech Australia Pty Ltd.</p>