CEMHER®

PRODUCT GUIDE

CEMHER MICRONE MICROCEMENT

TECHNICAL DATA SHEET DOCUMENT NUMBER | 20250100

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TECHNICAL DATA SHEET

CEMHER MICRONE MICROCEMENT

TECHNICAL DATA SHEET DOCUMENT NUMBER | 20250101

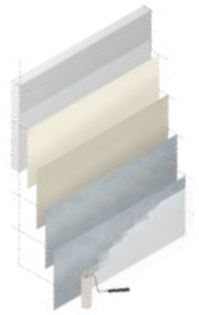
Exterior & Interior | 100% Waterproof | Low VOC A+ Air | Ultra Durable | Flexible | Mould Resistant

CEMHER Microne Microcement is a ready-to-use, high-performance coating designed for professional applications. With exceptional adhesion, flexibility, and durability, it provides a seamless, high-strength finish. Every layer is 100% waterproof, making microne ideal for interior and exterior surfaces, including wet areas, such as bathrooms, floors, walls, furniture, patios, and facades.

For high-traffic & commercial spaces, the Microne Plus System includes an optional hardener to enhance compressive strength, impact, & wear resistance. CEMHER Microne Microcement delivers efficiency, durability, and aesthetics, making it the ideal solution for renovations and new construction projects.

Applications	Internal, External, Floors, Walls, Ceilings, Bathrooms, Wet Areas, Benchtops, Joinery, Facades, Pavements, Pool surrounds, Stairs	
Features & Benefits	Seamless Coatings, 100% Waterproof in every layer, Ultra Durable 55mpa, Water Resistant, High adhesion strength, Flexible & Crack Resistant, Anti-slip, Low Voc, A+ Air Quality Rating, 180mpa Surface Hardness, Stain Resistant	
Product Origin	Valencia, Spain	
Compliance Certifications	UNE-EN 13813 CE | AS 4858:2004 | AS 3740:2021 *Compliance requirements outlined in substrate specification**	
	Microne® Single Component	Microne® Plus Dual Component
Pot Life Workability (20°C)	Any	90mins
Appearance	White Paste	White Paste + Clear liquid
Min Application Temperature	10 °C +	10 °C +
Underfloor Heating	Suitable With Microdur Base*	Suitable With Microdur Base*
Wheeled Furniture	Suitable ✓	Suitable ✓
PH Range (+24hrs)	12ph	12ph
Shelf Life	1 year from date of Manufacture	
Tool Clean up	Wash tools with water immediately after use	

System Overview



Prepare Substrate to Specification
CEMHER Primer + 80gsm Fiberglass Mesh
CEMHER Microne® Base x 2 Coats
CEMHER Microne® Medium x 2 Coats
Sealer CEMHER Aquapur70 (two-Part) x 2 Coats

Product	Grain Thickness	Coverage	Finish Options
Microne Base Coat - 10kg	1mm (Per Coat)	1m2/kg	Tuscan (P5)
Micone Medium Top Coat -10kg	0.5mm (per Coat)	2m2/kg	Smooth (P4)
Microne Plus Comp (B) Hardener - 500ml		500ml per 10kg	

Mixing

Microne® Single Component	No mixing required
Microne® Plus Dual Component	Mix 500ml Plus Comp B into 10kg Microne Bucket

Tinting

Add tint to the Microne microcement paste and mix using a mixing drill on low speed.
Mix until homogeneous.

Application Guidelines	Always refer to the CEMHER Microne Application Guidelines Documentation
Care & Maintenance	Always follow the suppliers recommendations Refer to the Microne Care & Maintenance Guide

Specification & Pricing	Specification & Pricing are available within the Specification Guide
Catalogue & Colour Chart	CEMHER Product Catalogues & Colour Charts are available upon request
Suitable Substrates	Gyprock/Plasterboard, Villaboard, FC, Render, Painted Surfaces, MDF, Pine, Hebel, Porcelain/Tiles, Concrete & Cement, Waterproofing
Substrate Requirements	Substrates must have a compressive strength of minimum 25N/mm2 and a tensile strength of 1.5N/mm. Substrates must be well consolidated and have a moisture content reading below 5%.
General Substrate Preparation	Ensure the surface is dry, clean, and free from dust, grease, or dirt. For painted surfaces, remove any flaking areas. For tiled surfaces, grind to create an adhesion key. Apply primer + Microne® Base to fill joins and allow 24 hours to dry. Level and prepare the surface to enhance performance and reduce material costs. Respect all existing expansion joints. Keep the surface free from water contact during installation. Allow a 3-4mm height allowance for the final floor finish. Ensure render, concrete, or new screeds are fully dry (28 days) before applying Microne®.
Substrate Guidelines	Always refer to the CEMHER Microne Substrate Guidelines Documentation & Specifications
Storage Conditions	Store in original closed container Store protected from weather Store at temperatures between 10°C - 30°C, Store in a cool, dry and well-ventilated place Store away from heat sources and direct sunlight
Safety Precautions	Follow the instructions in the safety data sheets. Good ventilation. Protective glasses & Rubber Gloves In case of contact with eyes, flush with water In case of contact with skin wash with soap and water. Do not swallow. In case of ingestion do not induce vomiting and seek medical attention immediately. Do not dilute with water. Dispose of in accordance with current legislation. Keep out of reach of children. Poisons Hotline Phone Number Australia: 13 11 26
Safety Data Sheets	It is the user's responsibility to comply with local Work Health & Safety (WHS) regulations, hazardous materials handling, and environmental guidelines. Individual Product Safety Data Sheets(SDS) are readily available via the following methods: • www.cemher.com.au • CEMHER Mobile app or Portal • Upon request to hello@cemher.com.au

Microne Base Coat	Once the surface has been prepared in accordance to the Substrate Specification Document, apply the CEMHER Primer & 80gsm fiberglass microcement mesh. Mix in optional Hardener (Plus B) Comp Apply two (2) coats of Microne® Base with a microcement trowel at a maximum thickness of 1mm per coat. Allow a minimum of 6 hours to dry before recoating & between coats. Dry time is dependant on the climate. Once the second Base Coat has been applied, leave to dry for a min of 12hrs before commencing the medium top coats.
Sanding	Use a dustless sander with 40-80grit Mirka sandpaper for base coats and 80-120grit for top medium coats to sand between each layer eliminating any imperfections. Avoid using generic coloured sandpaper, as it may be incompatible with the microcement and could cause colour transfer or marking
Microne Medium Top Coat	Mix in tint and/or optional Hardener (Plus B) Comp Apply the first coat of Microne® Medium at a maximum thickness of 0.5mm per coat All coats must be applied tight & thin to 0.5mm. Allow a minimum of 12 hours before applying the second coat of microne® medium. Leave for 12 hours to dry before sanding and applying the sealer coats. Use a dustless sander with mirka sandpaper to sand between each coat to eliminate lumps & imperfections.
Stain Resistant Sealer	Wait a minimum of 24hrs for Microne® to fully dry/cure before sealing Once completely dry sand with a dustless sander with 120-grit Mirka sandpaper Apply the first coat of sealer evenly and spread out thin across the substrate Leave to dry for 12hours before applying the second and final sealer coat Leave to cure for at least one week to achieve maximum performance. Please be advised that the sealers may exhibit a glossy appearance and a slightly slick surface for up to 7 days post-installation as the curing process progresses. After this period, the finish will settle into a matt, flat or satin state as intended depending on the sealer chosen. Do not use until sealers are fully cured (7days)
Curing Times	Always Adhere to dry time between coats Do not use until sealers are fully cured (7days) The Microcement itself will not be fully cured until 4 weeks after it has been laid. Please take care, not to cut, drop or drag items on the floor We recommend only light use for the first 28 days after the 7 day cure is complete Refer to the Care & Maintenance Guide

CEMHER® Microne Test Report	Test Standard	Result
Determination of Emissions into Indoor Air UNE EN 16516:2018	UNI EN ISO 16000-6:2019	A+
Thermal Conductivity	UNI EN 12664:2002	Λ=1.24 (W/MK)
Determination of Adhesion Strength UNE EN 13813:2014	UNI EN 13892-8:2003	>5 N\mm2 Class B 6,0
Impact Resistance UNE EN 13813:2014	UNI EN 6272-2:2012	>20 NM IR 24
Determination of Surface Hardness 1* UNE EN 13813:2014	UNI EN 13892-6:2003	>180 N/mm² (SH 200)
Determination of Compressive Strength UNE EN 13813:2014	UNI EN 13892-2:2005	>27-50 N\mm2 Class C80
Determination of Abrasion Resistance BCA 1* UNE EN 13813:2014	UNI EN 13892-4:2003	Class: AR 0,5 (Max 50 µm)
Depth of Water Penetration under Pressure UNE EN 14891:2017	UNI EN 12390-8:2020	5 BARS-3 DAYS Direct Pressure: No Penetration Indirect Pressure: No Humidity
Determination of Slip Resistance AS/NZS 4586	AS/NZS 4586	P4/P5* Sanding Dependent
Permeability to Liquid Water UNE EN 1504:2005	UNE EN ISO 1062-3:2008	<0.1 KG (M2*H 0.5)
Resistance to Severe Chemical Attack UNE EN 1504:2005	UNI EN 13529:2005	Class: II 28 Days without Pressure
Determination of the Transmission Properties of Water Vapors UNE EN 1504:2005	UNE EN ISO 7783-2:2012	Class: I Sd<5 m For Applications as Described in the TDS
Volatile Particle Emissions (VOC) ISO 11890-2: 2013	UNE EN ISO 11890-2: 2013	Emissions = 25G/L (<30 Classification)

CEMHER® **Aquapur70 Sealer** Test Report For Microne System	Test Standard	Result
Determination of emissions into indoor air UNE EN 16516:2018	UNI EN ISO 16000-6:2019	A+
Thermal Compatibility (Freeze and thaw cycling) UNE EN 1504-2:2 2005	UNI EN 13687-5	>3.5 MPA NO BUBLES, CRACKS
Artificial Weathering UNE EN 1504-2:2 2005	UNI EN ISO 16474-1:2014	Without Change 2000 H
Adhesion Strength by Pull-off Test UNE EN 1504-2:2 2005	UNI EN 1542	4.5 MPA
Impact Resistance UNE EN 13813:2014	UNI EN 6272-2:2012	CLASS III
Shore Hardness UNE EN 1504-2:2 2005	UNI EN ISO -868	80 D
UV Resistance Rays (PU Alifatic) UNE EN 1504-2:2 2005	UNI EN ISO 1134	ΔL=-1,9; ΔE=2,8 (200 Cycles)
Determination of Abrasion Resistance Taber-CS17 / 1000g:1000rpm UNE EN 1504-2:2 2005	UNI EN 5470-2	Thick (100 µ) Loss (22 mg)
Cooling Cycles Resistance UNE EN 1504-2:2 2005	UNI EN 48025:1979	Pass 20
Permeability to Liquid Water UNE EN 1504:2005	UNE EN ISO 1062-3:2008	W<0.1 Kg / (Kg./m2*h0,5)
Resistance to Severe Chemical Attack UNE EN 1504:2005	UNI EN 13529:2005	Class: III No alteration and no reduction in hardness
Determination of the Transmission Properties of water Vapours UNE EN 1504:2005	UNE EN ISO 7783-2:2012	Class: 1 Sd<5 m No alteration and no reduction in hardness
Volatile Particle Emissions (VOC) ISO 11890-2: 2013	UNE EN ISO 11890-2: 2013	Emissions= 57 g/l (<140 Classification)

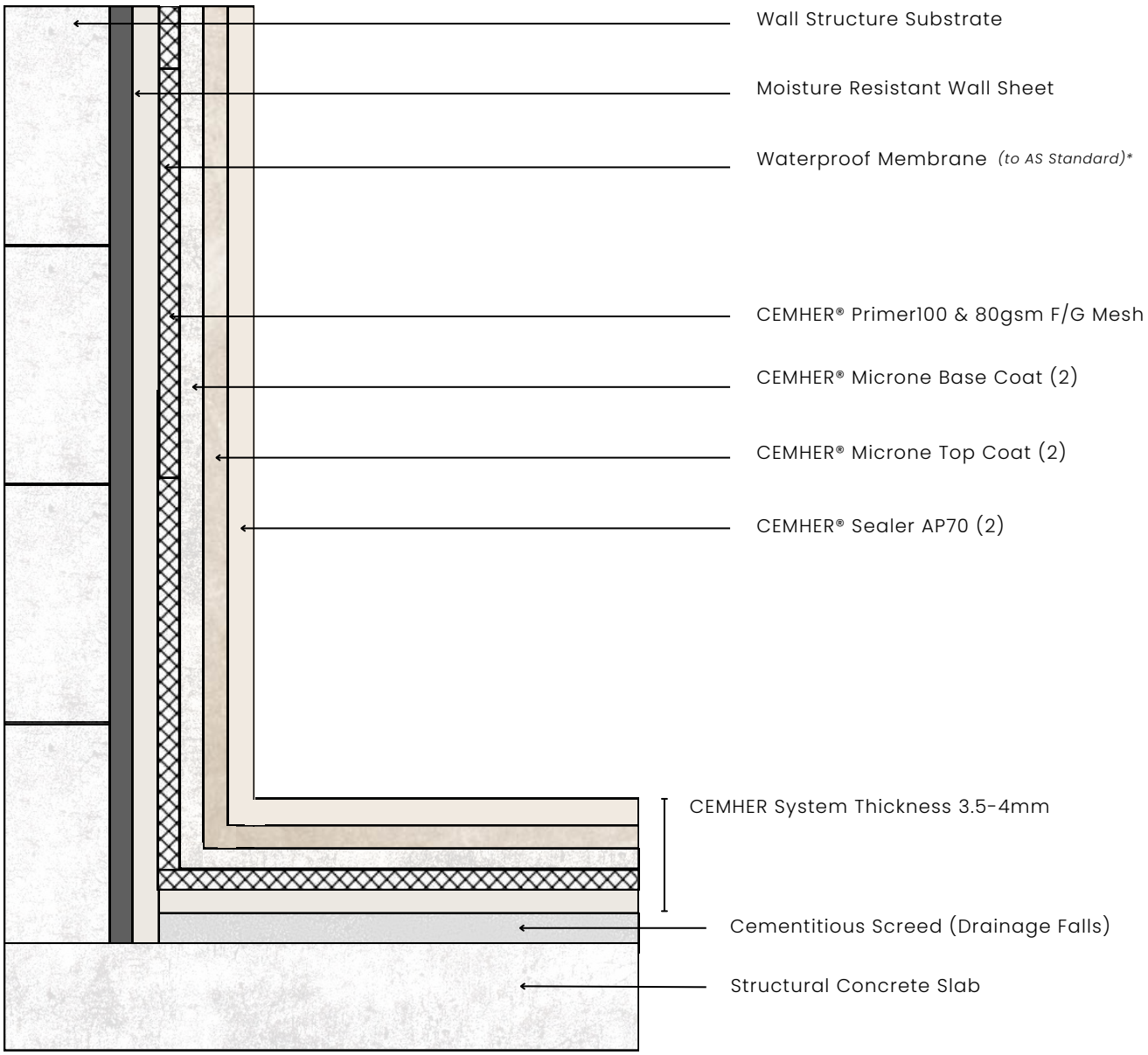
CEMHER® **Aquapur70 Sealer** Test Report For Microne System

Household Resistances (ASTM D 1308 Top Covered)

Time	Ketchup	Coffee	Water	Mustard	Caustic Soda	10% Bleach	24% Salfuman
1hr	Not affected	Not affected	Not affected	Not affected	Not affected	Not affected	Not affected
4hrs	Not affected	Not affected	Not affected	Not affected	Not affected	Not affected	Not affected
24hrs	Not affected	Not affected	Not affected	Slight change without loss of hardness	Not affected	Not affected	Not affected

CEMHER® Aquapur70 Sealer	The technical data & test reports for CEMHER® Aquapur70 Sealer (a+b) has been incorporated into this Microne TDS as it is a crucial component of the system, providing enhanced durability, abrasion resistance, impact resistance. As a water-based polyurethane sealer, its tested properties are essential in ensuring the overall performance, longevity, and compliance of the microne application in both interior and exterior environments.
Full Technical Data Sheet	CEMHER® Aquapur 70 Sealer TDS
Australian Building Code Compliant	
Wet Areas *AS 4858:2004 & AS 3740:2021*	CEMHER Microne Microcement complies with the Australian Building Code for wet areas when applied over a waterproofing membrane that meets AS 4858:2004 (Wet Area Membranes). This ensures the system aligns with AS 3740:2021 (Waterproofing of Domestic Wet Areas)
Slip Resistance *AS 4586:2013*	Where slip resistance is required, the system can be designed to meet AS 4586:2013 (Slip Resistance Classification for Pedestrian Surfaces). The Tuscan finish achieves a P5 rating, making it suitable for pool surrounds, commercial kitchens, external walkways, ramps, and other high-slip-risk environments.
External & Commercial AS 4654.2:2012 & NCC	For commercial and external applications, installation should follow the requirements of AS 4654.2:2012 (Waterproofing of External Above-Ground Structures) and the National Construction Code (NCC) for commercial buildings.
Expansion Joints	CEMHER Microne Microcement must be installed in accordance with industry best practices, ensuring that all architectural expansion joints are fully respected and carried through the microcement system.

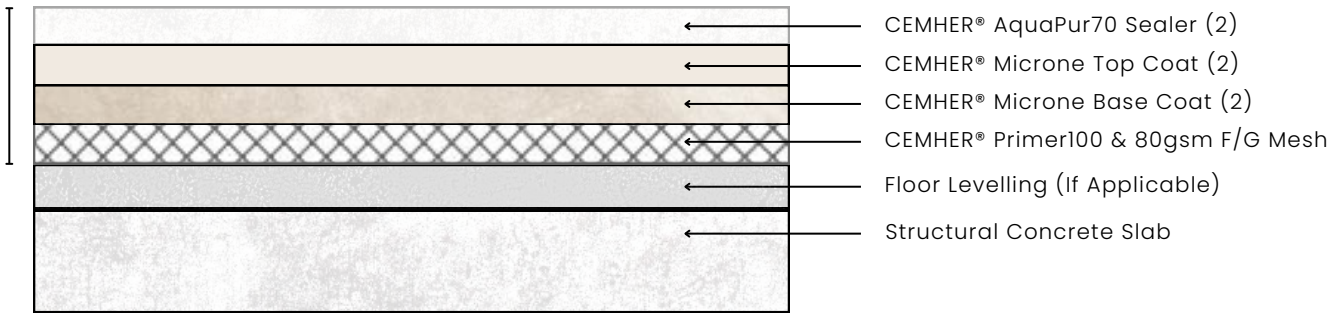
Technical Drawing	CEMHER Microne Microcement Bathroom System



Technical Drawing Title	CEMHER Microne Microcement Bathroom System Floor & Wall Finish Section Detail
Technical Drawing Number	20250101
Drawing Date	01.02.2025

Technical Drawing	CEMHER Microne Microcement Smooth Floor System

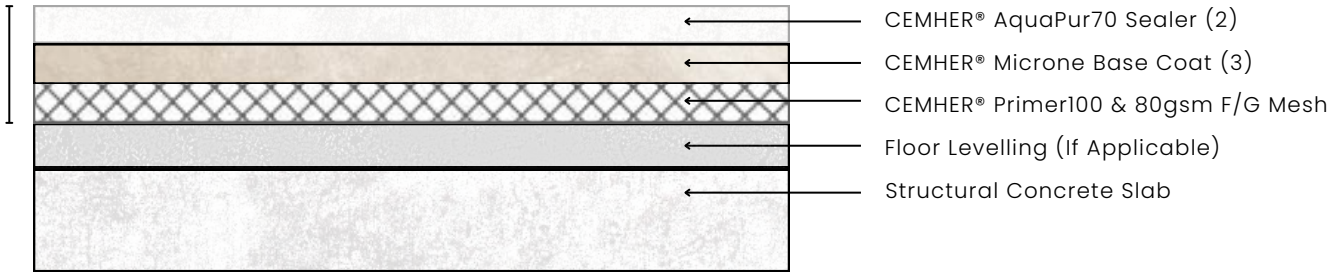
CEMHER System Thickness 3.5-4mm



Technical Drawing Title	CEMHER Microne Microcement Floor System Internal & External Floor Finish Section Detail
Technical Drawing Number	20250102
Drawing Date	01.02.2025

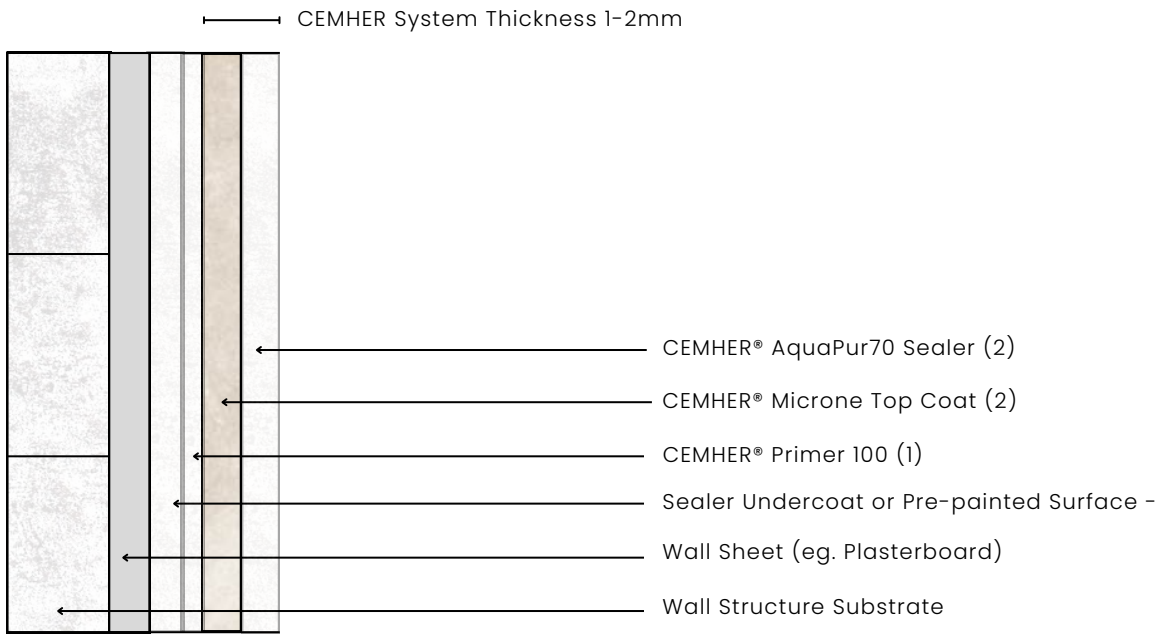
Technical Drawing	CEMHER Microne Microcement Tuscan (Base) Floor System

CEMHER System Thickness 3.5-4mm



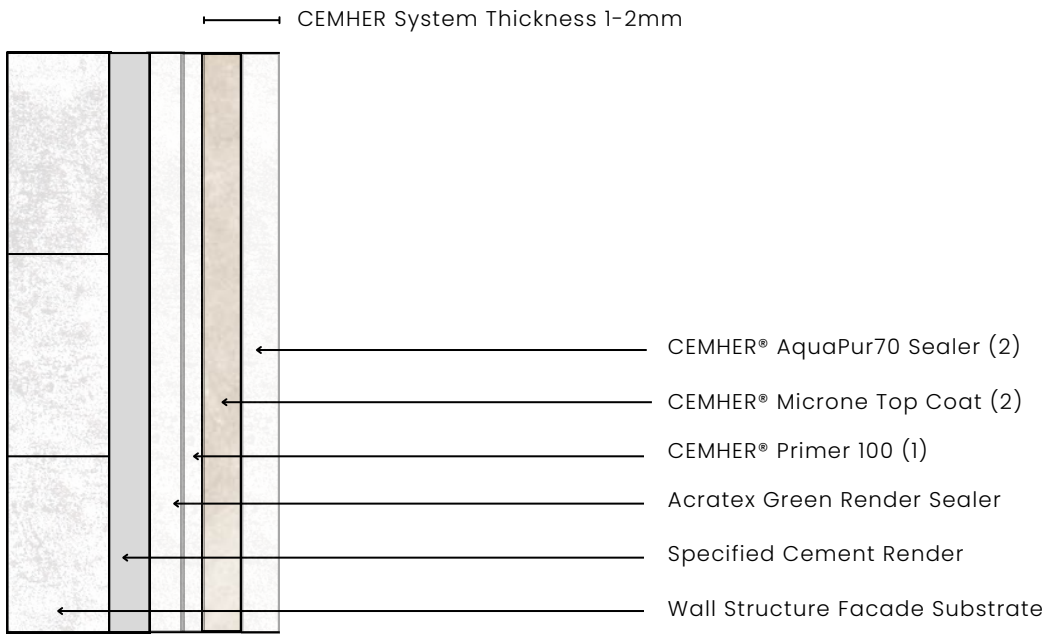
Technical Drawing Title	CEMHER Microne Microcement Floor System Internal & External Floor Finish Section Detail
Technical Drawing Number	20250107
Drawing Date	01.02.2025

Technical Drawing	CEMHER Microne Microcement Internal Wall System



Technical Drawing Title	CEMHER Microne Microcement Internal Wall System Internal Wall Finish Section Detail
Technical Drawing Number	20250103
Drawing Date	01.02.2025

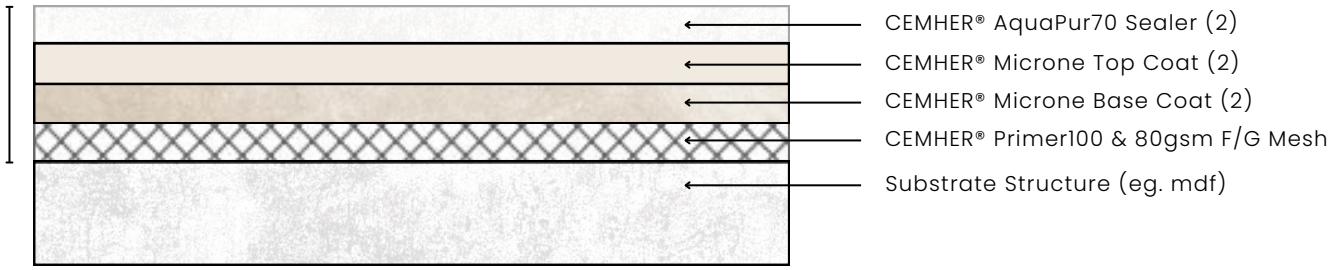
Technical Drawing	CEMHER Microne Microcement External Facade System



Technical Drawing Title	CEMHER Microne Microcement External Facade System External Facade Finish Section Detail
Technical Drawing Number	20250104
Drawing Date	01.02.2025

Technical Drawing	CEMHER Microne Microcement Countertop System

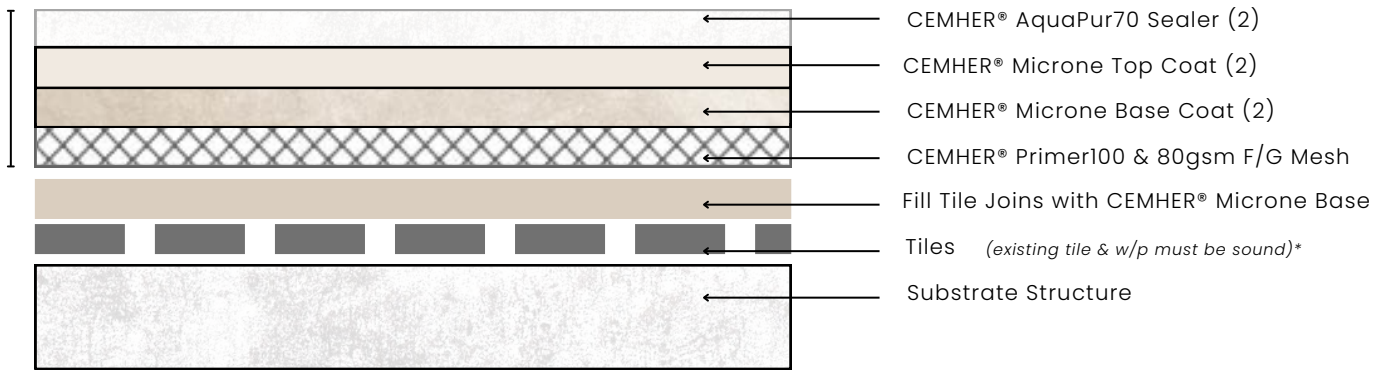
CEMHER System Thickness 3.5-4mm



Technical Drawing Title	CEMHER Microne Microcement Countertop System Countertop, Joinery & Furniture Finish Section Detail
Technical Drawing Number	20250105
Drawing Date	01.02.2025

Technical Drawing	CEMHER Microne Microcement System Over Existing Tile

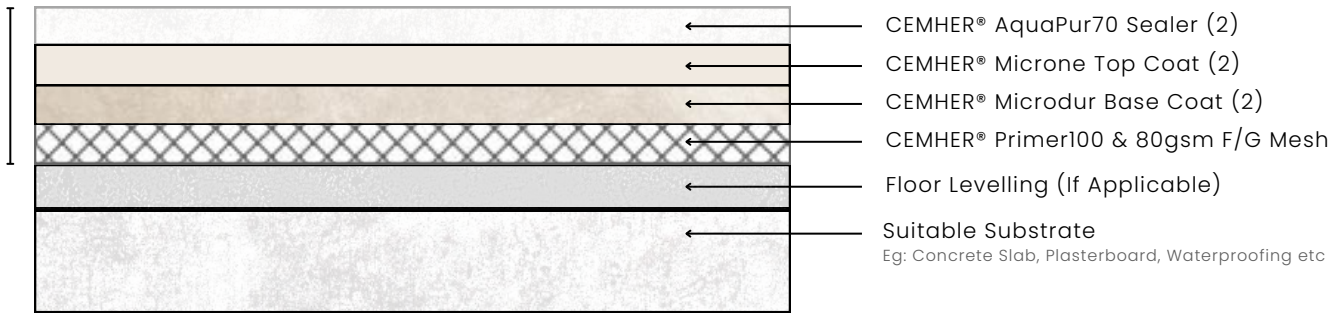
CEMHER System Thickness 3.5-4mm



Technical Drawing Title	CEMHER Microne Microcement System Over Existing Floor or Wall Tiles Section Detail
Technical Drawing Number	20250106
Drawing Date	01.02.2025

Technical Drawing	CEMHER Microne Microcement Full Hybrid System Smooth (Underfloor Heating)

CEMHER System Thickness 3.5-4mm



*Refer to the "CEMHER Microne Hybrid System Guide" for further information & specification***

Technical Drawing Title	CEMHER Microne Microcement Full Hybrid System Smooth
Technical Drawing Number	20250901
Drawing Date	01.02.2025

Precautions & Limitations	This Technical Data Sheet (TDS) should be read in conjunction with the CEMHER Installation Guide and Specification Manual. Colour variations may occur due to substrate absorption, drying conditions, lighting, tinting and raw material differences. Environmental & Application Conditions. CEMHER does not guarantee exact colour consistency due to natural variations in raw materials, environmental exposure, and ageing over time. Colour shifts may occur due to UV exposure, surface conditions, or improper maintenance. Do not apply if: ◦ Relative Humidity (RH) exceeds 85%. ◦ Surface temperature is below 10°C or above 40°C. ◦ Temperature is within 3°C of the dew point. Allow additional drying time in cool, humid, or low-ventilation conditions. Avoid application in direct sunlight, high winds, or extreme heat Protect surfaces from dew, rain, and frost for at least 48 hours post-application.
System Performance	Spread rates may vary due to substrate porosity, surface texture, and application technique. Regular cleaning is recommended to maintain the appearance and longevity of the microcement finish. Use pH-neutral cleaners and avoid abrasive scrubbing to prevent damage to the sealed surface. Refer to the CEMHER Care & Maintenance Guide for detailed cleaning and maintenance recommendations.
Applicator & User Responsibility	Applicators and contractors operate as independent entities, and CEMHER accepts no liability for improper application, negligence, or failure to follow correct procedures.
Disclaimer	This Technical Data Sheet (TDS) is the property of CEMHER and may not be modified, altered, or reproduced without written consent from CEMHER. This document provides guidance based on rigorous testing by KILNHER and accredited laboratories. CEMHER products perform as specified when applied in strict accordance with the latest TDS, supplier product installation procedures, and substrate preparation guidelines. This TDS does not guarantee that a product or product system is suitable for all projects or site conditions. Product performance is dependent on factors including: • Substrate condition and compatibility • Proper application by a qualified and experienced applicator • Compliance with Australian Building Codes and relevant standards • Environmental and climatic conditions at the time of application CEMHER is not liable for substrates that fail to meet specified compatibility, suitability, or compliance requirements. Last Updated: 19/01/2025

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SUBSTRATE GUIDE

CEMHER MICRONE MICROCEMENT

TECHNICAL DATA SHEET DOCUMENT NUMBER | 20250102

CEMHER Microcement is a thin surface coating that requires a smooth, well-prepared substrate to ensure optimal durability and aesthetic quality. This guide is intended for applicators, contractors, builders, architects, clients, and trades and those responsible for confirming that the substrate meets the necessary compatibility and preparation standards for CEMHER®.

Proper substrate preparation is essential for achieving a lasting, visually appealing Microcement finish. The substrate must be smooth, strong, and free from any risk of interfering materials. It is crucial to thoroughly review the substrate preparation instructions provided before Microcement application.

Suitable Substrates	Gyprock/Plasterboard, Villaboard, FC, Render, Painted Surfaces, MDF, Pine, Hebel, Porcelain/Tiles, Concrete, Cement and Waterproofing
Substrate Requirements	Substrates must have a compressive strength of minimum 25N/mm2 and a tensile strength of 1.5N/mm. Substrates must be well consolidated and have a moisture content reading below 5%. Ensure surfaces are fully cured and dry Please work to the manufacturer's recommended lead times for freshly laid surfaces Microcement should not be laid on substrates less than 3 on the MOHs hardness scale
General Substrate Guidance	Ensure the surface is dry, clean, and free from dust, grease, or dirt. For painted surfaces, remove any flaking areas. Fill any joins, cracks to ensure the substrate is smooth flat & level Level and prepare the surface to enhance performance and reduce material Prepare surfaces to be flat, smooth, and stable, with no expected movement or settlement. Allow 3-4mm height allowance for the final finish. Ensure render, concrete, or new screeds are fully dry (28 days) before applying. Prepare surfaces to be flat, smooth, and stable, with no expected movement or settlement. Do not apply over fresh or new substrates that have not completely cured Prevent water ingress or exposure during & after installation. CEMHER Microcement is not buildable and is not suitable for filling large gaps, holes, cracks or joins in the substrate. The area will need to be completely cleared for the Microcement installation Remove or leave off skirting boards & kick-boards prior to work commencing Ensure there are no underlying waterproofing issues or repairs that need to be address prior to the application of microcement Follow architect and engineer-specified expansion joints; do not fill these completely

Level Surfaces	Surfaces must be flat or at the desired level before microcement application. For uneven floors, use an acrylic primer and self-leveller to achieve a level surface, as microcement is not buildable. Allow only 3-4mm for the microcement to reach the final for full systems height. (refer to technical drawings) Ensure the surface is fully cured prior to microcement application. When applying over tiles, fill the joins with Primer 100 + Microne® Base and allow 24 hours to cure before proceeding with the system.
Surface Hardness	Microcement should not be laid on substrates less than 3 on the MOHs hardness scale Surfaces should be free from dust and excessive laitance
Expansion Joints	Where two separate subfloors meet, especially if laid at different times or with intentional expansion joints, movement is likely along the join. Movement in subfloors can cause microcement to crack along joints, as microcement is an overlay system and does not hold during significant substrate movement despite its superior flexibility. To minimise cracking from cold joints, concrete and screed subfloors should ideally be poured in a single pour, incorporating expansion/control joints as needed. For floors with existing joints, we recommend installers insert a threshold to separate the two surfaces, applying microcement up to the threshold on either side. Installers should respect and work with expansion joints, following appropriate application methods to ensure durability
Moisture	All surfaces will need to have less than 5% moisture content prior to install Ensure surfaces are fully cured and dry Please work to the manufacturer's recommended lead times for freshly laid surfaces Apply a consolidator if moisture levels are high to prevent bleed-through.
Water Tight	Ensure there is no risk of water exposure to the microcement during installation, including from open windows, doors, or rising damp. Apply a waterproofing membrane if there is any risk of substrate moisture or rising damp before beginning the installation.

Wet Areas *AS 4858:2004 & AS 3740:2021*	CEMHER Microne Microcement complies with the Australian Building Code for wet areas when applied over a waterproofing membrane that meets AS 4858:2004 (Wet Area Membranes). This ensures the system aligns with AS 3740:2021 (Waterproofing of Domestic Wet Areas) Microne is inherently waterproof in every layer, from the base coats to the final top coats. Unlike conventional microcement systems that rely solely on sealers for water resistance, Microne's formulation provides built-in waterproofing throughout the entire system. However to meet Australian Building Code for Wet areas a waterproofing membrane that meets Australian Standard must be applied to wet areas to meet code before the application of CEMHER Microne Microcement. Sealers are applied to enhance stain resistance and surface protection. For wet area applications, the underlying waterproofing membrane must be fully cured according to the manufacturer's specified drying times before Microne is applied. The waterproofing membrane must be flat, smooth, and free of imperfections, as the Microne system is only 3-4mm thick. Any uneven or poorly applied waterproofing may show through and affect the final finish. Showers must not be used until the full 7-day curing period is complete. Premature use can compromise the performance of the sealers, preventing them from achieving full chemical resistance, adhesion and durability.
External & Commercial AS 4654.2:2012 & NCC	For commercial and external applications, installation should follow the requirements of AS 4654.2:2012 (Waterproofing of External Above-Ground Structures) and the National Construction Code (NCC) for commercial buildings.

Substrate Preparation	
New Gyprock & Plasterboard	For newly plastered walls, prepare the surface to a smooth finish as per standard paint-ready specifications. Apply a sealer undercoat to mitigate banding effects and ensure strong primer adhesion.
Pre-painted Surfaces	For pre-painted surfaces, remove any flaking areas Ensure the surface is in good condition and any holes or patches are repaired. Apply a sealer undercoat over any patches
Waterproofing	Waterproofing should be applied as flat and smooth as possIble to avoid any clumps or dags as this may impact the final finish. Waterproofing membrane must meet Aus standard
Cement & Render	All cementitious substrates must be prepared to a flat, smooth, and stable condition, free from structural imperfections. Substrate moisture content must be verified at less than 5% prior to application. Over coating too soon could cause reaction. Newly constructed surfaces require a minimum curing period of 28 days to ensure moisture levels drop (structural integrity) Substrates must exhibit no signs of crumbling, de-lamination If you are experiencing suction or discolouration on rendered walls. A green render sealer can be applied to counter this. Microne is not designed to fill cracks as it is a thin product. Address substrate holes with an appropriate filler product to ensure substrate stability. Cracks exceeding 3mm in width must be fully opened and structurally reinforced using helix stitching bars. For cracks under 3mm, stitching may not be necessary and can be addressed with an appropriate filler product to ensure substrate stability. Render, concrete, and screeds are porous substrates that can increase primer absorption, potentially reducing the expected spread rate. Additional primer may be required to achieve uniform coverage and optimal adhesion on these surfaces.
MDF & Pine	For MDF surfaces, ensure the substrate is smooth and level. All joints should be properly filled, and screws must be fully secured and countersunk to prevent surface imperfections.

Substrate Preparation	
Exisiting Tiles	Existing tiles are required to be sound Any loose or drummy tiles will need to be removed and relayed or filled with a commercial grade floor leveller Any suspected waterproofing issues should be addressed prior to commencing microcement (speak with the homeowner) Fill all grout lines with Primer100 & MICRONE® BASE so that the surface is completely level 24hours prior to starting the full system. Additional product may be required when filling gaps or uneven substrates Grind the tile face properly to create a adhesion key
Hebel	Ensure the surface is well consolidated, with all cracks and joins thoroughly filled with hebel glue or equivalent. Note that Hebel, being a porous substrate and may reduce the primer's spread rate, you may require more primer than standard surfaces.
Other on Advice	For guidance on applying CEMHER Microne Microcement over unlisted substrates and to obtain specification approval, please contact CEMHER for substrate compatibility assessment and preparation requirements
Disclaimer	This substrate Guide is the property of CEMHER and may not be modified, altered, or reproduced without written consent from CEMHER. This document provides guidance based on rigorous testing by KILNHER and accredited laboratories. CEMHER products perform as specified when applied in strict accordance with the latest TDS, supplier product application procedures, and substrate preparation guidelines. This document does not guarantee that a product or product system is suitable for all projects or site conditions. Product performance is dependent on factors including: • Substrate condition and compatibility • Proper application by a qualified and experienced applicator • Compliance with Australian Building Codes and relevant standards • Environmental and climatic conditions at the time of application CEMHER is not liable for substrates that fail to meet specified compatibility, suitability, or compliance requirements. Last Updated: 19/01/2025

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APPLICATION GUIDE

CEMHER MICRONE MICROCEMENT

TECHNICAL DATA SHEET DOCUMENT NUMBER | 20250103

Resources		
Application Video Guides	Visit the CEMHER Youtube for application videos	
CEMHER Mobile App	Download the CEMHER App and create an account to access resources, video guides & more. Download on the App Store GET IT ON Google Play	
Select the Applicable System	This Application Guide outlines the complete installation process for the full CEMHER Microne Microcement System. Select the appropriate system based on your project requirements. For example, when applying Microne to interior feature walls, base coats and mesh are not required. Refer to the technical drawings in the Technical Data Sheets (TDS) on pages 8–14 for detailed system specifications and step-by-step application procedures.	

CEMHER Microne Materials (per 10m2)
Dependant on specified system

CEMHER® Primer 100 1L 	CEMHER® Microne Base 10kg (2) 	CEMHER® Microne Medium 10kg 
CEMHER Microne Tint 	CEMHER® Aquapur70 Sealer A+B 1.4L 	Microcement Fiberglass Mesh 80gsm

CEMHER Plus Hardener (optional Additive)Comp B 500ml
For the Microne Plus System, mix in one 500ml bottle of Microne Comp B into each 10kg bucket of base/medium 

Other Tools & Materials

Paint Brush	Use a quality Undyed Natural bristle Brush	
Roller & Sleeve (microfibre)	For applying Primer, use a 10mm+ Sleeve For applying Sealer, use a 4mm Sleeve	
Personal Protective Equipment	Refer to SDS	
Protective Drop Sheet	To protect Floor/surrounding surfaces	
Painters Tape	Interior Painters Tape	
Mirka Sandpaper	40-80Grit for base Coats & 80-120 Grit for Medium Top coats. Do not use generic coloured sandpaper as it could stain onto the surface. A dustless Sanding System is always recommended	
Trowel & Scraper	Microcement Base & Finishing Trowels Scraper with rounded edges	
Mixing Drill	For mixing in water & tint on low speed	

Visit the CEMHER Tool shop online or in store for any additional suitable items

Step 01. Primer & Mesh	
Prepare the Surface	Ensure the surface is prepared in accordance to the substrate specification & guidelines
Protect other Surfaces	Use painters tape and other coverings such as a drop sheet to protect any surrounding areas
Apply CEMHER Primer 100	Apply CEMHER Primer evenly across the substrate with the recommend paint brush & roller. After a few minutes stick your pre cut mesh strips to the primer and roll back over with primer to stick down neatly. Positioned mesh edge-to-edge without any gaps between sections. Take your mesh all the way into the internal corners, top to bottom It is recommended to pre-cut and plan our your mesh prior to priming
Primer Dry Time	Once primer has been applied, allow a minimum of 1hr dry time before applying the first coat of microne base. Apply your first coat of microne base within 12hrs of applying primer.
Note	For interior feature walls in non-bathroom/wet areas, only primer is required. In these instances, mesh reinforcement is also unnecessary as no base coats are being applied. After surface preparation, proceed directly to the top coats. Refer to the system technical drawings on pages 8–14 to ensure the correct system is installed for your specific application.

Step 02. First Microne Base Coat	
Pot Life	Cemher Microne Microcement is premixed and ready to use. It can be opened/closed and reused over and over again without drying up in the bucket. If the optional hardener is added, the pot life is 2hrs
Mixing Base Coat	Remove the plastic product bag from the bucket and cut the bottom corner. Push the microcement out into the empty bucket. We recommend mixing for improved product workability. **OPTIONAL** - Mix in 500ml Microne Plus Comp B Hardener
Apply First Base Coat	Use a scraper to place a scoop of Microne Base on the top edge of the rounded-corner microcement base trowel. Tilt the trowel slightly and apply the material evenly over the substrate, maintaining a consistent layer thickness of 1mm per coat. Hold the trowel at a 10-30° angle, using smooth, controlled strokes to achieve uniform coverage and a refined finish. Microcement must be applied thin & tight to the height of the base grain 1mm Do not build it up thick in any area, including the corners. Trowel out and away from internal corners to avoid build up. Apply the base coat smooth, flat, even & consistent.
Microne Base Dry Time	Leave the first Microne Base Coat to dry for a minimum of 6 hours before applying the second coat of base. You may need to leave longer if it still remains tacky or soft, depending on the temperature and humidity of your location.
Note	Microne base coats are not required for interior feature walls in non-bathroom/wet areas. After priming, proceed directly to the top coats. Refer to the system technical drawings on pages 8–14 to ensure the correct system is being installed for your specific application.
Tuscan Finish	If your selected system is the tuscan finish then you will require 3 tinted base coats only. Refer to specification.

Step 03. Second Microne Base Coat	
Sanding Between Coats	Once the first coat is fully dry, sand with 40-80grit Mirka sandpaper to smooth out any lumps or imperfections. We recommend dustless sanding for a cleaner application. Do not use generic coloured sandpaper, as pigments from the abrasive may transfer onto the surface and affect the final finish
Mixing Base Coat	Remove the plastic product bag from the bucket and cut the bottom corner. Push the microcement out into the empty bucket. We recommend mixing for improved product workability. **OPTIONAL** - Mix in 500ml Microne Plus Comp B Hardener
Apply Second Base Coat	Use a scraper to place a scoop of Microne Base on the top edge of the rounded-corner microcement base trowel. Tilt the trowel slightly and apply the material evenly over the substrate, maintaining a consistent layer thickness of 1mm per coat. Hold the trowel at a 10-30° angle, using smooth, controlled strokes to achieve uniform coverage and a refined finish. Microcement must be applied thin & tight to the height of the base grain 1mm. Do not build it up thick in any area, including the corners. Trowel out and away from internal corners to avoid build up. Apply the base coats smooth, flat, even & consistent.
Microne Base Dry Time	Leave the Second Microne Base Coat to dry for a minimum of 12 hours before applying the First Medium Top coat. You may need to leave longer if it still remains tacky or soft, depending on the temperature and humidity of your location.

Step 04. First Microne Medium Top Coat	
Sanding Between Coats	Once the base coats are fully dry, sand with 40-80grit Mirka sandpaper to smooth out any lumps or imperfections. We recommend dustless sanding for a cleaner application. Do not use generic coloured sandpaper, as pigments from the abrasive may transfer onto the surface and affect the final finish
Mixing Medium Top Coat	Remove the plastic product bag from the bucket and cut the bottom corner. Push the product out into the empty bucket. Add the tint bottle (colour) and mix with a mixing drill on low speed thoroughly for 3-5 minutes until fully homogeneous OPTIONAL - Mix in 500ml Comp B Hardener (2hr pot life)
Apply Medium Top Coat	Use a scraper to place a scoop of Microne Medium on the top edge of the rounded-corner microcement base trowel. Tilt the trowel slightly and apply the material evenly over the substrate, maintaining a consistent layer thickness of 0.5mm per coat. Hold the trowel at a 10-30° angle, using smooth, controlled strokes to achieve uniform coverage and a refined finish. Microcement must be applied thin & tight to the height of the medium grain 0.5mm. Do not build it up thick in any area, including the corners. Trowel out and away from internal corners to avoid build up.
Microne Top Dry Time	Leave the first top Coat to dry for a minimum of 12 hours before applying the Second Medium Top coat. You may need to leave longer if it still remains tacky or soft, depending on the temperature and humidity of your location.
Note	To prevent burnishing, apply light pressure and avoid overworking. However, some installers use this technique intentionally for a desired aesthetic effect when requested by clients.

Step 05. Second Microne Medium Top Coat	
Sanding Between Coats	Once the first top coat is fully dry, sand with 80-120grit Mirka sandpaper to smooth out any lumps or imperfections. We recommend dustless sanding for a cleaner application. Do not use generic coloured sandpaper, as pigments from the abrasive may transfer onto the surface and affect the final finish
Mixing Medium Top Coat	Continue with your already tinted bucket or remove the plastic product bag a new bucket of medium and cut the bottom corner. Push the product out into the empty bucket. Add the tint bottle (colour) and mix with a mixing drill on low speed thoroughly for 3-5 minutes until fully homogeneous OPTIONAL - Mix in 500ml Comp B Hardener (2hr pot life)
Apply Medium Top Coat	Use a scraper to place a scoop of Microne Medium on the top edge of the rounded-corner microcement base trowel. Tilt the trowel slightly and apply the material evenly over the substrate, maintaining a consistent layer thickness of 1mm per coat. Hold the trowel at a 10-30° angle, using smooth, controlled strokes to achieve uniform coverage and a refined finish. Microcement must be applied thin & tight to the height of the medium grain 0.5mm. Do not build it up thick in any area, including the corners. Trowel out and away from internal corners to avoid build up.
Microne Top Dry Time	Leave the second top coat to dry for a minimum of 12 hours before applying sealer coats. You may need to leave longer if it still remains tacky or soft, depending on the temperature and humidity of your location.
Note	To prevent burnishing, apply light pressure and avoid overworking. However, some installers use this technique intentionally for a desired aesthetic effect when requested by clients.

Step 06. First Sealer Coat	
Sanding	Once the microcement is fully dry, sand with 80-120grit Mirka sandpaper to smooth out any lumps or imperfections before sealing.
Mixing Aquapur70 Sealer	A 1.4L Aquapur70 Sealer kit provides coverage for 10m² (2 coats). To minimise waste, consider measuring and portioning the sealer based on the required square meterage before application Mix Part A + Part B and stir with a stirring stick for at least 2 minutes Do not use a mixing drill. Ratio: 5:2 1L part A to 400ml Part B
Apply First Sealer Coat	Apply a thin coat of sealer with a 4mm nap microfibre roller and quality undyed paintbrush. Do not apply sealers too thick as they will run and it may impact curing. TIP: Clean the roller before applying sealer by rinsing or using tape to remove dust and loose fibres before use.
Dry Time	Leave the first coat of sealer to dry for a minimum of 12 hrs before applying the final second coat of Sealer.
Note	If more than 72 hours pass between sealer coats, lightly sand the surface with 120-grit sandpaper to create a key. This ensures proper adhesion between the layers during re-coating.

Step 07. Second Sealer Coat	
Mixing Aquapur70 Sealer	Mix the Aquapur 70 Sealer as per Step 6 Ratio: 5:2 1L part A to 400ml Part B
Apply Second Sealer Coat	Apply a thin coat of sealer with a 4mm nap microfibre roller and quality undyed paintbrush. Do not apply sealers too thick as they will run and it may impact curing. TIP: Clean the roller before applying sealer by rinsing or using tape to remove dust and loose fibres before use.
Dry Time	Leave for a minimum of 7 days before walking on or using the finished microcement surface or turning on any water. It may seem 100% cured, however, it needs the proper cure time to perform. Full hardening and curing is 30 days so take care in this curing phase. Avoid impact, compression and foreign items that may affect the sealers from completely curing. Leave to cure for at least one week to achieve maximum performance. Please be advised that the sealers may exhibit a glossy appearance and a slightly slick surface for up to 7 days post-installation as the curing process progresses. After this period, the finish will settle into a matt, flat or satin state as intended.
Completion	
Refer to the CEMHER Microne Microcement Care & Maintenance Guide	

CEMHER

CARE & MAINTENANCE

CEMHER MICRONE MICROCEMENT

TECHNICAL DATA SHEET DOCUMENT NUMBER | 20250104

Care & Maintenance	
First 7 Days	Do not wet or clean for a minimum of 7 days after final sealers have been applied. Leave for a minimum of 7 days before walking on or using the finished microcement surface or turning on any water. It may seem 100% cured, however, it needs the proper cure time to perform. Avoid impact, compression and foreign items that may affect the sealers from completely curing. Please be advised that the sealers may exhibit a glossy appearance and a slightly slick surface for up to 7 days post-installation as the curing process progresses. After this period, the finish will settle into a matt, flat or satin state as intended.
First 30 Days	Microcement fully hardens in 30 days. Avoid cleaning the surface with cleaners for the first 14 days. Use the surface lightly during the initial 30 days. Avoid heavy work; cover with breathable material if necessary. Remove the cover after surrounding works are completed. Ensure good airflow for proper drying and hardening.
Precautions	Avoid dragging heavy objects on the surface. Lift, don't drag, furniture to move it. Use pads or felts under furniture to protect the floor. Place a mat at the entrance to catch dust and sand. Sweep or vacuum often. For moving heavy furniture, use a woolen cloth to prevent scratches. Protect floors with cardboard, wool blankets, and nylon sheets during renovations. Avoid cleaning with strong chemicals like bleach hydrofluoric acid, dichloromethane, caustic soda, and paint removers. Use CEMHER Branded or Approved PH Neutral cleaners for product warranty & longevity.
Prolonged Heat Exposure	Don't place boiling objects directly on surface; use heat-resistant mats. Don’t place hot pans or hair irons directly on surface Use a cutting board on kitchen counters to avoid scratches, just like with marble or ceramic surfaces.

Daily Cleaning & Care	Use water and the CEMHER Microcement Cleaner which is PH Neutral Clean with a damp cloth and CEMHER Microcement Cleaner Avoid acid-based, ammonia, chlorine, or abrasive cleaners. Avoid permanent wetness. Don't leave wet carpets or leaking pots on it. Avoid hitting or rubbing with hard objects. Keep surfaces free of stones or grit to avoid scratches. Despite its chemical resistance, only clean with PH-neutral products designed for Microcement surfaces not aggressive products. Cemher sealers can be purchased at cemher.com.au Ensure not wet items are not left on the microcement for a prolonged period of time as the colour could leach and cause a stain.
Prolonged Water Exposure	Don't leave water, food or chemicals to sit on the surface for more than 1hr. Keep wet items like towels, shampoo bottles or plant pots off the microcement. Ensure there are no products left on the microcement and/or near water that could leech such as timber tannins, died clothing, bath toys, make-up, tanning products, hair dyes, etc. Make sure water can drain properly with correct falls. Seal edges and faucets to prevent water pooling
Stain Resistance	CEMHER sealers are of the highest quality for durability and protection. Sealed microcement resists common liquids like wine, oil, vinegar, and coffee. Clean spills quickly to prevent possible staining Acidic or alkaline substances can mark the surface but won't stain if cleaned promptly. Hydrochloric acid, pure bleach, acetone, and ammonia will leave marks if left for over an hour; quick cleaning prevents stains.
Fixtures	Use the correct tools to install fixtures Fill holes or cuts with silicone . Do not scratch the sealer when installing fixtures
Renewing Microcement	The sealer on microcement may need reapplying over time due to wear. Periodically add a new sealer layer for best performance. Check the sealer's condition to decide when to reseal. Not maintaining the sealer can lead to stains on the microcement Only use CEMHER Branded Microcement maintenance products. Always reseal with CEMHER Microcement Sealers as other brands are incompatible and will void warranty