

Table 1

	Substrate preparation recommendation		
GENERAL REQUIREMENTS	When installing microcement on a screed or concrete surface, the surface must meet certain requirements. These requirements include being level, clean, cured, dry, dust-free, and free of substances that could hinder adhesion. Microcement cannot be applied on non-solid substrate with any type of movement issues. For the microcement flooring the substrate to be solid, load bearing, level, fully cured, stain free with a minimum tensile strength of 1.5 N/mm2 and dry maximum humidity allowed 4%. Any self levelling compound used as a subfloor should be load bearing. Before applying microcement, it is crucial to carefully inspect the subfloor for any cracks, moisture issues, unevenness, or movement issues. These issues must be addressed before installation begins, and most can be solved with either use of our HYRDO EPOXY PRIMER or combo for RM BASE + Quartz No1 Sealer. All external areas must be water-tight and protected from wind, and roofs must also be water-tight. Prior to installation, any pipework and underfloor heating systems must be tested to ensure there is no water ingress, which can affect the curing process and final finish of the microcement. Attention must be paid to joints and movement during floor or wall preparation, as any future movement can result in cracks. When applying microcement to an irregular substrate and/or substrate with cracks, and /or substrate created from jointed boards, the area should be level and cracks can be treated with our HYRDO EPOXY PRIMER + Fibre mesh as part of the substate preparation. When applying microcement to the substrate with moisture issues such as damp, and/or in the basements , and /or in the outdoor areas then ClaudiCemento HYDRO EPOXY PRIMER should be used first as part of the substate preparation. Proper Under floor heating (UFH) should be turned off at least 3 days before application and can be turned back on after 28 days. Microcement cannot be applied directly on UFH pipes, as the substrate for microcement installation must be solid and load bearing. Existing expansion joints should be mirrored, and any new ones should be designed by architects or structural engineers. For more information about substrate preparation please go to our article " Rules of Successful <u>microcement</u> installation' on our BLOG tab https://claudicemento.com/uncategorized/blog/rules-successful-microcement-installation/, and check our Product Recommendation Tool.		
	FLOORS		
	TYPE OF SUBSTRATE	Indoor Installations	Additional preparation required for outdoor installation
	Under floor heating - (wet , electric)	Under floor heating (UFH) should be turned off at least 3 days before application and can be turned back on after 28 days. Microcement cannot be applied directly on UFH, as the substrate for microcement installation must be solid and load bearing.	N/A
	Self Levelling compound floor	Self levelling compound used must be load bearing	External grade self levelling should be used, must be load bearing + HYDRO FIX should be used as per of substrate preparation
	Screed boards/ cement boards	Glued and screwed, and flush and overlap the joints. any screw holes to be filled with suitable grade filler , fiber mesh to be used and two layers of base applied.	not suitable
Concrete / screed / old microcment	should be solid, load bearing, level, fully cured, stain free with a minimum tensile strength of 1.5 N/mm2 and dry maximum humidity allowed 4%.	+ HYDRO EPOXY PRIMER should be used as per of substrate preparation	
Tiles	must be solid, with no movement. Use NO1 Sealer Quartz + RM BASE	+ HYDRO EPOXY PRIMER should be used as per of substrate preparation	
Plywood	Glued and screwed and flush and overlap the joints. any screw holes to be filled with suitable grade filler , fiber mesh to be used and two layers of base applied. in a wet room - HYDRO EPOXY PRIMER should be applied as part of the substrate preparation	not suitable	
timber / wooden floor /paquete / floor boards / laminate flooring / Vinyl flooring	NOT SUITABLE	NOT SUITABLE	
WALLS , SPLASHBACKS			
TYPE OF SUBSTRATE	Indoor Installations	Additional preparation required for outdoor installation	
	Indoor Installations	Outdoor installations - recommended : external cement boards or sand and cement rendering + HYDRO FIX	
Plastered walls / Multifinish	Should be full dry, cured, level, with no cracks, clean	NOT SUITABLE	
Plywood	Glued and screwed, flush and joints to be overlapped. any screw holes to be filled with suitable grade filler , fiber mesh to be used and two layers of base applied. In a wet room - HYDRO EPOXY PRIMER should be applied as part of the substrate preparation	NOT SUITABLE	
MDF	NOT SUITABLE	NOT SUITABLE	
Bricks	sand and cement rendering	+ HYDRO EPOXY PRIMER should be used as per of substrate preparation	
Plasterboards	two options: plastering or taping and jointing. Plastering involves applying tape to joints and then coating the entire surface with plaster. Taping and jointing involve taping the joints and then applying three coats of jointing compound to the joints only.	NOT SUITABLE	
Cement boards	Plastering	NOT SUITABLE	
External grade cement boards	NOT APPLICABLE	Screwed and glued tightly , any screw holes to be filled with suitable external grade filler + HYDRO EPOXY PRIMER should be used as per of substrate preparation	
Solid Mirror or glass	NO1 Sealer Quartz	NOT APPLICABLE	
FURNITURE			
TYPE OF SUBSTRATE	Indoor Installations	Additional preparation required for outdoor installation	
Green MDF	Glued and screwed from the bottom, flush and joints to be overlapped, any screw holes to be filled with suitable grade filler , fiber mesh to be used and two layers of base applied.	NOT SUITABLE	
Marine plywood	Glued and screwed from the bottom, flush and joints to be overlapped, any screw holes to be filled with suitable grade filler , fiber mesh to be used and two layers of base applied.	second choice , external grade cement boards more suitable	
Exernal grade cement boards	NOT APPLICABLE	screwed and glued tightly , any screw holes to be filled with suitable external grade filler	
OTHER			
Substrate with moisture issues such as damp, and/or installation in the basements , and / or installation in the outdoor areas then	ClaudiCemento HYDRO EPOXY PRIMER should be used as part of the substate preparation.		
SUBSTRATE WITH CRACKS AND/OR IRREGULARITIES , OR CREATED OF JOINTED SURFACES/ BOARDS	ClaudiCemento EPOXY PRIMER + Fiber mesh should be used as part of the substate preparation.		
Existing expansion joints	Existing expansion joints should be mirrored, and any new ones should be designed by architects or structural engineers.		
Basins	Marine plywood + ClaudiCemento HYDRO EPOXY PRIMER should be used as part of the substate preparation.		