

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 can be solved with either use of our FIX ALL system or HYDRO FIX system and or 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 with ClaudiCemento FIX ALL system should be used first 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 FIX 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 microcement installation' on our BLOG tab https://claudicemento.com/uncategorized/blog/rules-successful-microcement-installation/		
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 microcement	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 FIX should be used as per of substrate preparation
Tiles	must be solid, with no movement. Use NO1 Sealer Quartz + FIX ALL	+ HYDRO FIX 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 FIX 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 from the bottom, 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 FIX should be applied as part of the substrate preparation	NOT SUITABLE
MDF	NOT SUITABLE	NOT SUITABLE
Bricks	FIX ALL should be applied as part of the substrate preparation or sand and cement rendering	+ HYDRO FIX 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 or ClaudiCemento FIX ALL system should be used first as part of the substate preparation.	NOT SUITABLE
External grade cement boards	NOT APPLICABLE	Screwed and glued tightly , any screw holes to be filled with suitable external grade filler + HYDRO FIX 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, 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
Marine plywood	Glued and screwed from the bottom, 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.	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 FIX should be used as part of the substate preparation.	
SOLID TILES AND/OR SUBSTRATE WITH CRACKS AND/OR IRREGULARITIES , OR CREATED OF JOINTED SURFACES/ BOARDS	ClaudiCemento FIX ALL 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 FIX should be used as part of the substate preparation.	