

CLAUDICEMENTO READY MIX MICROCEMENT

Installation Manual

Problematic substrate Preparation

IRREGULAR SUBSTRATE, SUBSTRATE CREATED OF JOINTED SURFACES/BOARDS OR TILE FLOORING/WALLS –

STEPS NO.1 SEALER + FIX ALL+ FIBER MESH + FIX ALL + NO.1 SEALER

1. Apply No1 Sealer on a clean, sound, dust free substrate, apply it evenly on the substrate with a roller (foam, wool or fiber), or airless spray gun, brush. Leave it to dry for about approximately 30 min to an hour
2. Once No.1 Sealer is dry FIX ALL should be applied to even out the surface.
 - Add 6 litres of clean water and mix FIX ALL mortar with a mechanical stirrer until a homogeneous paste is achieved
 - The application should be performed with a toothed trowel 6 mm deep and then smoothed with the smooth swinging of the trowel to make sure the layer thickness is as uniform possible
 - Spread FIX ALL evenly fix up all the joins, holes and /or cracks.
3. Embed fiber mesh while the mortar is fresh, top-down (if upright), pressing it flat so that it is fully embedded in the mass
4. Apply another coat of FIX ALL make sure fiber mesh is fully covered, let it fully dry
5. Re apply No.1 Sealer on the dry FIX ALL and let it dry for an hour

SUBSTRATE WITH MOISTURE PROBLEMS – NO1 SEALER + FIBER MESH + HYDRO FIX (AKA FLEXY FIX)

1. Apply No1 Sealer on a clean, sound, dust free substrate, apply it evenly on the substrate with a roller (foam, wool or fiber), or airless spray gun, brush. Once No.1 Sealer is relatively dry a fiber mesh should be applied - fiber mesh should be extended properly avoiding any folds. Once fiber mesh is applied, spread No1 Sealer again on top of fiber mesh.
2. Leave it to dry for about approximately an hour (drying time depends on the substrate, on a very porous substrate the drying time will be shorter)

3. Apply HYDRO FIX (aka FLEXY FIX)

- In a clean container mix HYDRO FIX component A with component B (trowel application ratio 20 : 5, for roller application 20:10)
- Leave to settle for 10 minutes.
- Spread with a trowel or roller of 3 mm or 6 mm
- Cover the fibre mesh and make the surface as flat and smooth as possible, leave it to dry for 16 hrs and apply second layer to fully cover the fiber mesh, leave it to dry fully 16-24hrs sand it with 80 grid sanding paper.

MICROCEMENT APPLICATION

STEPS	AREA OF INSTALATION	INSTRUCTIONS	ADDITIONAL INFO
STEP 1	•SOLID TILES, •SUBSTRATE WITH CRACKS AND/OR IRREGULARITIES *SUBSTARTE CREATED OF JOINTED SURFACES/BOARDS	APPLY CLAUDICEMENTO FIX ALL SYSTEM OR COVER THE JOINTS WITH READY MIX BASE (with no pigment added) ALLOW IT TO DRY FOR A MINIMUM OF 24 HOURS BEFORE PROCEEDING TO STEP 2	SEE SUBSTRATE PREPARATION – IRREGULAR SUBSTRATE
	•SUBSTRATE WITH MOISTURE ISSUES LIKE DAMP •OUTDOOR AREAS INC. OUTDOOR FURNITURE	APPLY CLAUDICEMENTO HYDRO FIX SYSTEM ALLOW IT TO DRY FOR A MINIMUM OF 24 HOURS BEFORE PROCEEDING TO STEP 2	SEE SUBSTRATE PREPARATION – SUBSTRATE WITH MOISTURE ISSUES
	SOILID TILES AND MOISTURE ISSUES LIKE DAMP, APPLICATIONS IN OUTDOOR AREAS, BASEMENTS	APPLY ONE COAT OF CLAUDICEMENTO FIX ALL AND ONE COAT OF CLAUDICEMENTO HYDRO FIX SYSTEM. ALLOW IT TO DRY FOR A MINIMUM OF 24 HOURS BEFORE PROCEEDING TO STEP 2	APPLY NO.1 SEALER + FLEXY FIX + FIX ALL + FIBER MESH + FIX ALL + NO.1 SEALER
	REGULAR, NON-PROBLEMATIC SUBSTRATE – CLEAN, DRY, LEVEL, SOLID AND WITH NO CRACKS AND A NO MOISTURE ISSUES, NOT CREATED OF JOINTED SURFACES/BOARDS.	CLEAN AND HOVER THE SUBSTRATE AND PROCEED TO STEP 2	
STEP 2	ALL AREAS	APPLY ONE COAT OF NO1 SEALER, ON VERY ABSORBENT SUBSTRATE DILUTE UP TO 50% WITH WATER ON A VERY ALLOW 30 MINUTES TO DRY	TOOL – SHORT PILE ROLLER CONS – 50 SQM PER COAT WAITING TIME – ALLOW 30 MIN* TO DRY BEFORE MOVING TO THE NEXT STEP

STEP 3	WALLS, CEILING, FURNITURE	<p>APPLY ONE COAT OF READY-MIX BASE, WITH ADDED PIGMENT (see how to add a pigment to the microcement mortar section below) , ONCE DRY PERFORM SANDING.</p> <p>OPEN CONTAINER, ADD PIGMENT MIX AND HOMOGENISE THE PRODUCT WITH A MECHANICAL MIXER AT LOW SPEED FOR AT LEAST 3 MINUTES, LET IT STAND FOR 2 MINUTES AND STIR AGAIN UNTIL OBTAINING A UNIFORM COLOUR AND MIXTURE FREE OF LUMPS.</p>	<p>TOOL: METAL TROWEL</p> <p>CONSUMPTION: +/- 0.8 KG / M2 FOR EACH LAYER</p> <p>WAITING TIME BETWEEN COATS: 6 - 8 HOURS *</p> <p>USE 40 OR 60 GRIT SANDING OF EACH LAYER AND VACUUM THE SURFACE BEFORE MOVING TO THE NEXT STEP .</p>
	FLOOR	<p>APPLY TWO COATS OF READYMIX BASE, PERFORM SANDING IN BETWEEN COATS,</p> <p>ADD PIGMENT TO THE SECOND COAT OF BASE - OPEN CONTAINER, ADD PIGMENT ((see how to add a pigment to the microcement mortar section below) , MIX AND HOMOGENISE THE PRODUCT WITH A MECHANICAL MIXER AT LOW SPEED FOR AT LEAST 3 MINUTES, LET IT STAND FOR 2 MINUTES AND STIR AGAIN UNTIL OBTAINING A UNIFORM COLOUR AND MIXTURE FREE OF LUMPS.</p> <p>ONCE THE SECOND COAT OF READY MIX BASE IS DRY PERFORM SANDING</p>	
STEP 4	WALL CEILING FURNITURE	<p>APPLY 1 COAT READY MIX DECK OR FINE ,WITH ADDED PIGMENT . EXERTING SOME PRESSURE WITH THE TROWEL. ONCE DRY PERFORM SANDING.</p>	<p>TOOL: METAL TROWEL FOR READY MIX DECK , RUBBER TROWEL FOR READY MIX FINE CONS.: 0.35 KG / M2 FINE , 0.45 KG DECK</p> <p>WAITING TIME BETWEEN COATS: 6-8 HOURS</p>
	FLOOR	<p>APPLY ONE COAT OF READY MIX DECK OR FINE, WITH ADDED PIGMENT , EXERTING SOME PRESSURE WITH THE TROWEL ONCE DRY PERFORM SANDING</p>	<p>SANDING WITH 120 GRIT (DECK) OR 220 (FINE) AND VACUUM THE SURFACE.</p>
STEP 5	ALL AREAS	<p>APPLY FIRST COAT OF WATER-BASED ALIPHATIC POLYURETHANE PROTECTOR DUR MATT OR SATIN (RATIO 5:1) DILUTED WITH 20%-30% WATER.</p> <p>APPLY SECOND COAT OF WATER-BASED ALIPHATIC POLYURETHANE PROTECTOR DUR MATT OR SATIN (RATIO 5:1) DILUTED WITH 10% WATER. TOOL: ROLLER</p>	<p>TOOL: LONG PILE ROLLER</p> <p>WAIT 12 HOURS BETWEEN APPLYING THE SECOND COAT*</p>
GENERAL RECOMENDATIN:			
<ul style="list-style-type: none"> BEFORE APPLICATION, THE SURFACE MUST BE THOROUGHLY CLEANED AND FREE OF ANY DUST, GREASE, OLD PAINT, OR CHIPPED BLISTERING. THE SURFACE SHOULD ALSO BE RESISTANT, STABLE, BONDED, AND FREE OF ANY RESIDUE FROM RELEASE AGENTS OR ORGANIC PRODUCTS. APPLICATION SHOULD BE CARRIED OUT WITHIN A TEMPERATURE RANGE OF 15 C AND 300 C FOR OPTIMAL RESULTS. TEMPERATURE EXTREMES CAN AFFECT THE PRODUCT'S PERFORMANCE. 			

- PLEASE AVOID APPLYING THE PRODUCT DURING LOW TEMPERATURES, AS THIS CAN HINDER ITS EFFECTIVENESS.
- AVOID APPLICATION DURING HOT WINDS, AS THIS CAN NEGATIVELY IMPACT THE PRODUCT'S DRYING PROCESS.
- IN THE EVENT OF HEAVY RAIN, IT IS RECOMMENDED TO DELAY APPLICATION UNTIL THE WEATHER CONDITIONS IMPROVE.
- FOR OPTIMAL COVERAGE, PLEASE DO NOT APPLY A THICK LAYER OF THE PRODUCT. APPLY THE LAYERS WITH A MINIMUM THICKNESS – TO SPREAD THE MICROCEMENT PROPERLY OVER THE SURFACE DO NOT LET THE TROWEL TOO FLAT BUT AIM TO HAVE IT AT 45 DEGREE ANGLE.
- FRESH ON FRESH APPLICATION MUST BE AVOIDED TO PREVENT ADHESION ISSUES.
- IN CASE OF ACCIDENTAL CONTACT WITH EYES, RINSE WITH PLENTY OF WATER FOR 15 MINUTES. FOR SKIN CONTACT, WASH WITH SOAP AND WATER.
- DO NOT CONSUME THE PRODUCT. IF INGESTION OCCURS, SEEK IMMEDIATE MEDICAL ATTENTION.
- EMPTY CONTAINERS MUST BE DISPOSED OF IN ACCORDANCE WITH CURRENT LEGAL REGULATIONS.
- TO PROMOTE OPTIMAL DRYING, IT IS ADVISED TO PROMOTE AIR FLOW IN THE APPLICATION AREA.
- WHEN USING THE PRODUCT, IT IS RECOMMENDED TO HAVE GOOD VENTILATION, WEAR PROTECTIVE GOGGLES TO AVOID SPLASHING, RUBBER GLOVES, AND PROTECTIVE CLOTHING. AVOID DIRECT SKIN CONTACT AND WEAR A MASK WHEN SANDING AND SMOOTHING SURFACES.
- STORE THE PRODUCT IN A COOL, DRY PLACE AWAY FROM DIRECT SUNLIGHT.
- KEEP OUT OF REACH OF CHILDREN AND PETS.
- JOINTS - EXISTING STRUCTURAL JOINTS IN A SUBSTRATE MUST BE RESPECTED (MOVEMENT JOINTS).

Note(): Drying times are calculated at temperature of 20°C and a maximum relative humidity of 60%. Adapt times to environmental conditions. Curing period can vary considerably depending on room temperature, with topcoat sealers and microcement full performance being achieved after 28 days.*

HOW TO ADD A PIGMENT TO THE MIX

MIXING THE PIGMENT 15KG MICROCEMENT BUCKET = ENTIRE BOTTLE OF READY-MIX PIGMENT. OPEN CONTAINER, ADD PIGMENT ((SEE HOW TO ADD A PIGMENT TO THE MICROCEMENT MORTAR SECTION BELOW) , MIX AND HOMOGENISE THE PRODUCT WITH A MECHANICAL MIXER AT LOW SPEED FOR AT LEAST 3 MINUTES, LET IT STAND FOR 2 MINUTES AND STIR AGAIN UNTIL OBTAINING A UNIFORM COLOUR AND MIXTURE FREE OF LUMPS.

MIXING THE PIGMENT WITH LESS OR MORE THAN 15KG; HOW TO CALCULATE HOW MUCH PIGMENT DO YOU NEED PER 1 KG OF MICROCEMENT:

WEIGHT OF THE PIGMENT IS ALWAYS WRITTEN ON A BOTTLE.

CALCULATION IS AS FOLLOWS:

WEIGHT OF THE PIGMENT (AS WRITTEN ON THE BOTTLE) DIVIDED BY 15 = AMOUNT OF PIGMENT YOU NEED PER 1 KG OF MICROCEMENT.

EXAMPLE:

ONE BOTTLE OF OFF - WHITE PIGMENT IS 600GR.

$600\text{GR} / 15 = 40 \text{ GR}$

40 GR = THE AMOUNT OF PIGMENT YOU NEED PER 1 KG OF READY MIX MICROCEMENT.

NOTE:

- TO ACHIEVE LIGHTER SHADE, ADD LESS OF THE PIGMENT RECOMMENDED DOSE.
- USING MICROCEMENT BASE AS A FINISHING COAT - DUE TO THE THICK GRAIN OF MICROCEMENT BASE, THE COLOUR ON MICROCEMENT BASE ALWAYS COMES OUT DARKER. IF YOU ARE USING MICROCEMENT BASE AS A FINISHING COAT AND YOU WISH TO ACHIEVE A COLOUR AS ON THE MICROCEMENT DECK SAMPLES THEN ADD 30% LESS OF THE PIGMENT RECOMMENDED DOSE.

RECOMMENDATION:

- MEASURED QUANTITY OF THE PIGMENT NEEDS TO BE POURED INTO A CLEAN CONTAINER - TO GET PRECISE MEASURING, THE PIGMENT SHOULD BE WEIGHTED ON ELECTRONIC SCALE MEASURING QUANTITIES BETWEEN 0.1GR -500 GR.
- POUR THE MEASURED QUANTITY OF THE PIGMENT INTO A CONTAINER, ADD A SMALL AMOUNT OF WATER TO IT TO CREATE A PIGMENT MIX.
- POUR A BIT OF WATER IN THE CONTAINER WHERE MEASURED PIGMENT WAS IN, SHAKE IT AND ADD IT TO THE PIGMENT MIX TO ENSURE THAT ALL PIGMENT WAS USED.
- ADD THE PIGMENT MIX TO THE MICROCEMENT MORTAR, MIX IT THROUGHOUT TO AVOID UNEVEN COLOURING OF THE MICROCEMENT MORTAR, THEN CONTINUE TO THE NEXT STEP OF INSTALLATION.

POST INSTALATION CARE AND CURING TIME:

Please ensure compliance with the below guidelines for the best results and longevity of ClaudiCemento READY MIX microcement installation. Curing period starts after the final coat of seal is installed.

SETTING	INSTRUCTION
RESIDENTIAL (NO FURTHER RENOVATION)	<ul style="list-style-type: none">• FLOOR: LOW FOOT TRAFFIC ALLOWED AFTER 48 HRS*.• WALLS, CEILING, AND FURNITURE: DO NOT USE OR PLACE ANY OBJECTS FOR A PERIOD OF 4-5 DAYS*.
COMMERCIAL (NO FURTHER RENOVATION)	<ul style="list-style-type: none">• NO WORKS OR TRADES SHOULD BE CARRIED OUT IN AND AROUND THE AREA WHERE MICROCEMENT INSTALLATION WAS DONE FOR A PERIOD OF 5 DAYS*.
COMMERCIAL AND RESIDENTIAL (ON-GOING RENOVATION)	<ul style="list-style-type: none">• NO WORKS OR TRADES SHOULD BE CARRIED OUT IN AND AROUND THE AREA WHERE MICROCEMENT INSTALLATION WAS DONE FOR A PERIOD OF 5 DAYS.• ONCE THE CURING PROCESS HAS ENDED, USE HEAVY-DUTY FLOOR CARDBOARD PROTECTION TO PROTECT THE MICROCEMENT FROM POTENTIAL DAMAGES CAUSED BY AN ON-GOING CONSTRUCTION/ RENOVATION WORKS ON SITE. FAILURE TO COVER APPROPRIATELY MAY CAUSE DAMAGE TO THE SEALANT.
GENERAL RECOMMENDATIONS <ul style="list-style-type: none">• USE HEAVY-DUTY CARDBOARD PROTECTION TO COVER THE MICROCEMENT WORKS.• AN ADDITIONAL IMPACT PROTECTION SHOULD BE PUT ON TOP OF THE CARDBOARDS IN CASE THERE ARE ANY HEAVY DUTY WORKS CARRIED OUT AND/OR HEAVY EQUIPMENT BEING USED OR PLACED ON THE FLOORING.• DO NOT COVER MICROCEMENT WITH PLASTIC AND RUBBER MATERIALS; ALL MATERIALS USED FOR COVERING MUST BE BREATHABLE.• REMOVE ANY COVERINGS OF THE MICROCEMENT FOR DAYS WHEN NO WORKS ARE CARRIED ON SITE.	

- DO NOT USE RUBBER MARKING TOOLS DIRECTLY ON THE MICROCEMENT; CHECK LADDERS AS THEY OFTEN LEAVE BLACK RUBBER MARKING.
- AVOID SLIDING OR DRAGGING FURNITURE, APPLIANCES, OR ANY OTHER OBJECTS ACROSS THE SURFACE OF THE WORK.

NOTE:

The instructions for use provided are based on our own testing and knowledge of the product. These recommendations do not constitute a guarantee or commitment from us. Our liability is limited to the value of the product itself. Please be aware that ClaudiCemento LTD reserves the right to make any necessary changes to the information provided without prior notice. We are dedicated to continuously improving our product and will do so as needed to ensure its quality and effectiveness for our customers.

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