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www.creativo-microcemento.it

CREATIVO

0896 CREATIVO® MICROCEMENTO

APPLICATION MANUAL

Colorificio MP s.r.l.
Rimini, Italy

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1. Introduction

The purpose of this manual is to provide an easy-to-use guideline for an easy and safe application and maintenance of **CREATIVO® MICROCEMENTO** system on walls and floors.

CREATIVO® MICROCEMENTO is a microcement and resin system for the creation of vertical and horizontal seamless surfaces CE-marked according to UNI EN ISO 13813 “Materials for screeds: proprieties and requirements”.

2. Scope

CREATIVO® can be applied both in residential and commercial projects, on horizontal and vertical surfaces, including bathroom floor, shower, kitchen backsplash, furniture, etc.

Thanks to its HACCP certification it is also particularly suitable for application on surfaces where hygiene is of key importance, such as in hospitals on in the food & beverage industry.

3. Standard System

3.1. Internal floors:

I. 2 coats of **CREATIVO® FONDO**
II. 2 coats of **CREATIVO® FINITURA**
III. 1 coat of **CREATIVO® PRIMER**
IV. 2 coats of **CREATIVO® TOP**

3.2. Internal walls:

I. 1 coat of **SMARTCOAT 0.4 mm**
II. 2 coats of **CREATIVO® FINITURA**
III. 1 coat of **CREATIVO® PRIMER**
IV. 2 coats of **CREATIVO® TOP**

3.3. Additional components

I. **CREATIVO® AUTOLIVELLANTE**
II. **CREATIVO® BARRIERA**
III. **CREATIVO® FUGA**
IV. **CREATIVO® GRIP**
V. **CREATIVO® ROCK**
VI. **CREATIVO® SALE & PEPE**
VII. **CREATIVO® MONO TOP**

NB. Additional coats and products may be required for surface preparation and additional protection as specified in the following paragraphs.

4. Resources

4.1. Equipment & Machinery:

The tools and machinery required include, but may not be limited to:

- Sanding machine and sanding discs.
- High-speed mixing drill with sharp blades.
- Trowels, rollers and other painting equipment.
- Scrapers.
- Circular saw with diamond disc.
- Leveling bar > 2 m.
- Masking tape
- Marking pencils.
- Shoecovers
- Knee-pads

4.2. Safety Equipment

- Work Gloves.
- Long sleeved overalls
- Safery footwear
- Protective Goggles
- Protective Mask
- Ear plugs or ear muffs.

For each product, the PPE required is showed in the product Safety Data Sheet. We also recommend to wear protective masks during the sanding of the layers (especially if the sanding machine is not directly connected to an aspiration system) and safety earmuffs.

4.3. Manpower

The application of CREATIVO® system must be carried out only by specialized and trained installers, who must strictly follow the indications of the system technical data sheet (EN_TdS_0896_CREATIVO [last rev.]). The final look of the microcement, the type of application and the conditions of the job site will affect production rates. When working on large surfaces, with few architectural barriers, with each coat of **CREATIVO® FONDO** or **CREATIVO® FINITURA** it is possible to cover approximately 100-200 sqm per hour considering two applicators and provided that the installation area is freely and continuously available without interruption by other trades. For application in small rooms, with a great amount of architectural elements, on stairs, furniture, etc. the production rate will be significantly lower as such surfaces require greater care for details.

4.4. Materials

- Creativo® Fondo
- Creativo® Finitura
- Creativo® Microcemento

- Creativo® Primer
- Creativo® Top (A+B)
- Creativo® Autolivellante (if and where required by substrate condition
- Creativo® Barriera (if and where required by substrate condition)
- Creativo® Fuga (if and where required by substrate condition)
- Creativo® Grip (if and where required by substrate condition)
- Smartcoat 0.4 mm (if and where accepted by substrate condition)
- Fissativo Acrilico (if and where required by substrate condition)
- Resinpol (if and where required by substrate condition)
- 90 g/m2 fiberglass mesh (if and where by substrate condition)
- PU-sealant or silicone (if and where required by site conditions).
- low modulus horizontal joint sealant.

4.5. Delivery, storage & handling

Deliver materials in original unopened packages, bearing brand name and identification of manufacturer. Upon delivery of material to site, a full inventory check against packing list to be prepared, to establish shortages, if any. Unloading of all supplied materials at jobsite. Store & protect all supplied materials indoors, under cover and keep them dry and protected against damage from humidity, moisture, temperatures extremes, direct sunlight, surface contamination, rust, soil, corrosion, construction traffic, and other causes. Protect drums from freezing temperatures (minimum + 5° C).

5. Surface preparation

5.1. Job site preparation.

- All overhead work should be completed before the microcement floor is installed. If overhead work is done after the microcement application, then the floor must have adequately cured and must be adequately protected to prevent damages.
- During the whole application, the temperature of both the work environment and substrate should be between + 8° C and + 30° C. Relative humidity must not exceed 75%.
- Upon the start of the application, the work area should be free of other trades and their material and must have adequate lighting and power.

5.2. General surface preparation

- The condition of the subfloor should be checked before the start of the application.
- The sub-floor has to be dry, flat, hard, completely cured and free from cracks, craters and chemical substances, fat, oil or any other element that might affect adhesion of the system. Old filming paints must be removed.
- Do not apply in the presence of percolating or stagnating water.

- Missing parts, holes, cracks or damages, need to be repaired with specific restoration mortars. The repaired areas should be cured correctly according to the nature and thickness of the product applied.
- In case of new cement screed, the screed must be fully cured as per manufacturer recommendation and for at least 28 days.
- On old screeds, or if the screed is not solid, consolidate the substrate with **CREATIVO® PRIMER**. If the substrate is particularly dusty, we recommend consolidation with **RESINPOL**. After its application, evaluate condition of the substrate before proceeding.
- Check the floor moisture with a moisture meter. In case the moisture level is above 4%, in the basement, on the ground floor, in exterior floors and wherever there is possibility of future water infiltration or rising damp, it will be necessary to apply **CREATIVO® BARRIERA**, three component epoxy-cementitious moisture barrier. In order to achieve an effective moisture barrier, **CREATIVO® BARRIERA** must be applied in a minimum thickness of 2 mm with consumption rate of 1.8 kg/m^2 for mm applied. Strictly follow the instructions in the product TDS for its application.
- The sub-floor must be flat and even. **CREATIVO® MICROCEMENTO** is a 2-3 mm system. If the unevenness of the surface is similar or greater than the maximum thickness of the system, it will be necessary to first prepare the surface. If the thickness to be recovered is less than 10 mm, than apply **CREATIVO® AUTOLIVELLANTE**, quick-drying self-levelling mortar following the instruction provided in the product TDS. Wait at least 48 hours before starting the application of **CREATIVO®** system. If the thickness is greater than 10 mm, then we recommend laying a new layer of screed to recover the unevenness. For newly laid screed the curing time is at least 28 days. Let the surface cure properly before proceeding.
- Ensure that control joints have been envisioned and have been created in the right quantity, position and depth. The control joints must be deep enough to absorb any movement of the structure and must be free, not filled with any unsuitable sealant. Mark the position of the control joints in order to replicate them in **CREATIVO®** system (see paragraph 6.6). Control joints, if foreseen, must always be respected and correctly sized according to the type of screed or flooring present and in any case replicated in the **CREATIVO®** system.
- In case of surfaces with the possibility of extended water stagnation such as shower floors, outdoor floorings, etc. a suitable slope needs to be considered (at least 1 cm per linear meter) to avoid that the prolonged contact can affect the aesthetic finish and damage the system.
- Before beginning the application, the surface must be free from dust and debris.
- Proceed with the application only when the unsatisfactory conditions are corrected in order to guarantee an adequate substrate for the successful outcome of the work.

5.3. Subfloors other than concrete

5.3.1. Ceramic and porcelain tiles

First check the condition of the tiles. If the tiles have any imperfection or have been damaged, it will not be possible to apply microcement on top. It will be necessary to remove them and recreate a solid and flat surface first. If the tiles are in good condition and the surface is even, it is possible to proceed. On particularly glossy and smooth tiles, we recommend to perform a light shot blasting or grinding to improve adhesion of **CREATIVO®** system. As an alternative, or in addition to, it is also possible to apply one coat of **CREATIVO® GRIP** by roller. **CREATIVO® GRIP** is a ready-to-use adhesion promoter for non-absorbent difficult substrates. Observe the consumption rate of 0.1-0.15 kg/m^2 and wait until the substrate is fully dry to proceed with the application. Tiles should be thoroughly cleaned and degreased before application of microcement. Make sure to carefully clean the grout joints in order to remove dirt, waxes, oil, grease or any substance that might compromise the adhesion of the system and/or migrate to the system overtime. If any staining substance is left in the joints, it might resurface in the system, showing the pattern of the below joints in the microcement. To avoid this, we recommend application of **CREATIVO® FUGA. CREATIVO® FUGA** is applied only in correspondence with the joints fully saturating the joint. If the grout joints are particularly deep or wide, it is better to fill them with **CREATIVO® FONDO** first. If the grout joints are less than 3 mm, it is possible to proceed directly with the 1st coat of **CREATIVO® FONDO** interposing a fiberglass mesh in the first coat (see paragraph 6.1 – *1st coat*).

5.3.2. Timber floor, vinyl and linoleum floor

We do not recommend application of **CREATIVO®** system on this type of floors, as they have a different elastic modulus than microcement. Remove them and check the condition of the sub-floor before proceeding.

5.3.3. Anhydrite screed

Check the condition of the screed and make sure it has been laid correctly and that it is properly cured. On new anhydrite screed, consolidate the substrate with **FISSATIVO ACRILICO** diluted 1:1 with water. For old anhydrite screeds, provided they are solid enough for subsequent application, consolidate the substrate with **RESINPOL**.

5.3.4. Radiant floor

On new radiant floors, make sure that the appropriate screed has been laid and that is has properly cured. Climatic conditions and humidity can affect the drying time of the screed. The substrate moisture must be less than 4%. Measure the moisture using a moisture meter. Also make sure that thermal shock test has been performed before application of **CREATIVO®** system, and won't be performed subsequently to its application. For renovation of radiant floors covered by ceramic tiles, it is necessary to apply **CREATIVO® BARRIERA** first. The heating system has to be switched off 4 days before starting application. The maximum floor temperature should be 18°C. The heating system must remain switched off for the entire application time of the **CREATIVO®** system and for at least 7 days after the application of the last coat. Always change the temperature gradually at the beginning and at the end of the period of use of the heating system. Always avoid heat accumulation due to carpets or rugs or lack of space between the furniture and the floor.

5.3.5. Exterior floors

For the application of **CREATIVO®** in exterior it is necessary to evaluate the type and condition of the substrate. In case of doubt, we recommend to contact our Technical Office at mp@mp-paints.com. In exterior it is always necessary to apply **CREATIVO® BARRIERA** following the instruction of the product TDS. Make sure that the floor has the right slope, at least 1cm per linear meter or create it with specific mortar to guarantee the correct water flow (do not use **CREATIVO® FONDO!**). Application on exterior floors requires application of a 90 g/m^2 fiberglass mesh in the system and application of 3 coats of **CREATIVO® TOP** instead of the standard two. The 2nd and 3rd coat should be catalysed at 50% instead of 25% (2 components B for each component A).
NB. When applying **CREATIVO®** system, it is always necessary to provide a perimeter protection for the system to avoid any rising damp and prolonged contact with water. It is not recommended to use the **CREATIVO®** system in those situations in which, due to particular climates or situations, it is not possible to avoid prolonged contact with snow, ice, water or the like.

5.3.6. Other substrates

Since this manual cannot foresee all the varieties of substrate on which it is possible to apply microcement, in case of doubt about the specific substrate, please contact our Technical Office for information at mp@mp-paints.com.

6. Methodology

6.1. Application on floor

1st COAT

Mix well 2 parts (in weight) of **CREATIVO® FONDO** with 1 part of **CREATIVO® MICROCEMENTO** with a high-speed mixing drill for minimum 5 minutes or until a smooth, lump free, homogeneous mix is achieved. Leave the mix to settle a few minutes and proceed with application. Pot life of the two components, once mixed, is 1 hour, do not use the mixture after this time, don not try to re-activate it by adding water as the cement curing process has already started. Mix only the material that will be used. Apply the product by stainless steel trowel trying to avoid very thick layers per single coat. After at least 8 hours sand the surface by sanding machine to remove any imperfection and consolidate the surface, using 60G sandpaper. Vacuum the dust. When dealing with wide areas or/and surfaces with joints wider or deeper than 3 mm it is necessary to interpose a 80-90 g/m^2 alkali-resistant fibreglass mesh in the 1st coat of **CREATIVO® FONDO**. The fiberglass mesh must also be applied in case the substrate is composed of different materials (e.g., part of the substrate is ceramic tiles, part is screed) as different substrate are subject to different movements, and the fiberglass mesh will help contrast the action of such movements. It is also necessary to apply the fiberglass mesh on surfaces with micro-cracks (non-dynamic). The fiberglass mesh has to be applied directly on the fresh coat of **CREATIVO® FONDO** and smoothed with a plastic trowel. The mesh pieces must be placed side by side and not overlapped. When applying the fiberglass mesh, consumption rate of **CREATIVO® FONDO** will be 1.2 – 1.3 kg/m^2 and there will be no sanding between first and second coat**.** We recommend the use of shoe covers during all the operations to avoid dirtying the surfaces. Avoid wetting the surface before completing the system, stains or spots will affect the final result.

2nd COAT

Mix **CREATIVO® FONDO** with **CREATIVO® MICROCEMENTO** in the same way as the first coat. Apply by stainless steel trowel in a thin layer, making sure to fully cover the fiberglass mesh in case it was applied in the first coat. Wait at least 8 hours and sand the surface by sanding machine to remove imperfections and consolidate the surface. Use a 60g sanding disc. Vacuum the dust afterwards.

3rd COAT

Mix **CREATIVO® FINITURA,** coloured in the desired shade, with **CREATIVO® MICROCEMENTO** (the proportion is 2 parts in weight of **CREATIVO® FINITURA** with 1 part of **CREATIVO® MICROCEMENTO).** Mix with a high-speed mixing drill for minimum 5 minutes or until a smooth, lump free, homogeneous mix is achieved. Leave the mix to settle a few minutes and proceed with application. Pot life of the two components, once mixed, is 1 hour, do not use the mixture after this

time, don not try to re-activate it by adding water as the cement curing process has already started. Mix only the material that will be used. Apply with special tool **CREATIVO® RED SPATULA** made with an extra thin stainless-steel blade. The use of trowels with a stiff blade can develop black marks on the finish. After 8 hours sand by sanding machine to remove any imperfection, using 120g sandpaper and vacuum the dust.

4th COAT

Apply the second coat of **CREATIVO® FINITURA** in the same way as the first and design the surface with the specific technique to achieve the effect desired. After at least 8 hours sand and vacuum the surface.

5th COAT

Apply one coat of CREATIVO® PRIMER, ready-to-use, by roller, in order to consolidate the surface and reduce the absorbency of CREATIVO® TOP. Wait 4 hours for the coat to dry.

6th COAT

Application of **CREATIVO® TOP**. Mix carefully **COMPONENT A** before use, add **COMPONENT B** (catalysis ratio: 1kg A + 0.2 kg B), mix well and apply with specific **CREATIVO® MOHAIR ROLLER** or for smaller areas with velour mini-roller, taking care of applying homogeneously the product without leaving deposits and paying special attention to corners, edges, drains and any element that could be subject to water infiltration. First coat can be diluted up to 10% with water. Pot-life of the mixed product is 1 hour, do not use it after. Despite the type of finish selected, we recommend the application of **CREATIVO® TOP LUCIDO (glossy)** as first coat. This reduces the risks of visible roller marks. To minimize said risk also make sure to always use a perfectly clean and new roller. Spread the material with the roller homogeneously and apply in a crossed direction. Then use a new roller to go over the floor in one direction, fresh on fresh. Let the surface dry for at least 6 hours.

7th COAT

After about 6 hours, and not later than 24 hours from the first coat, apply a second coat of **CREATIVO® TOP** in the finish selected (glossy, satin or matt), with the same method. Preferably do not dilute the second coat, or dilute it maximum 5% with water. In case over 24 hours have passed, it is necessary to sand the surface with thin grit sandpaper (250G and over) and vacuum before proceeding to the next coat. Make sure to fully cover the first coat (the gloss from the first coat must not be visible once the second has dried) and spread the topcoat homogeneously on the whole surface. In heavy traffic areas, in exterior or areas subject to water stagnation we recommend to apply a third coat of **CREATIVO® TOP.** In case special resistances are required in terms of waterproofing and abrasion resistance, it is possible to mix **COMPONENT A** with 2 packs of **COMPONENT B** (catalysis ratio 50% instead of standard 25%). It is possible to do for all coats, or only for the 2nd and 3rd coat. Wait at least 24 hours from the last coat before walking on the surface,

avoid any heavy movement, abrasive action, deposit of dirt, moist, oily and staining substance. Wait at least 7 days for full curing of the film, the minimum time for the surface to achieve good skid, abrasion and dirt resistance.

6.1.1. Recommendation on the application of CREATIVO® FONDO and CREATIVO® FINITURA.

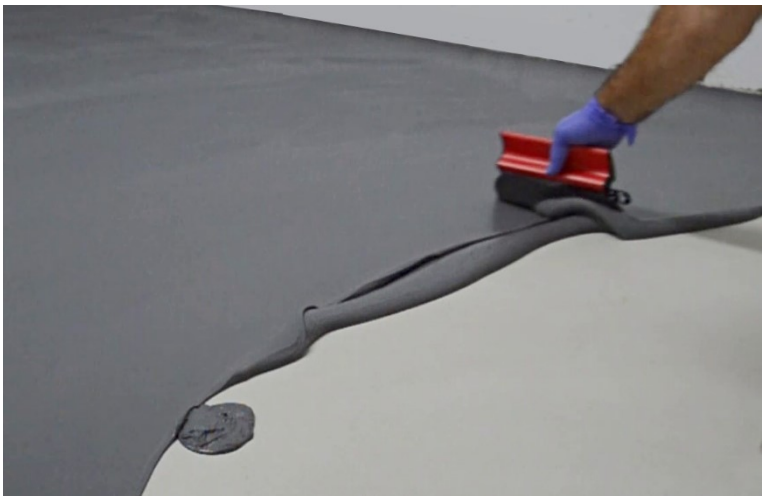
- Make sure to mix **CREATIVO® FONDO** and **CREATIVO® FINITURA** properly with high-speed mixing drill and sharp blades. If you see white marks during the application similar to the one in Picture 1, it means that the material has not been mixed properly and need to be mixed again. This will affect both the final look of the microcement and its mechanical resistances.

  Picture 1. White marks in CREATIVO® FINITURA



- In order to avoid visible application joints during the application of **CREATIVO® FONDO** and **CREATIVO® FINITURA**, especially when you are dealing with large surfaces, make sure to organize the work properly and employ the right number of people (keeping in mind the mixing of the material too). Application must be performed quickly and seamlessly; the applicator must keep an abundant amount of fresh material in front of himself (e.g., Picture 2) so that it will not start to set and dry differently in different areas. When working side by side, make sure that both applicator work on the common side so that the difference in technique will not be too evident.

  Picture 2. Correct procedure to avoid visible application joints.



- The perimeter of the room requires special attention during the application, for the various finishing options see the paragraph 6.3.
- Do not let any water or staining substance drop on the surface until the full system is complete. For further info on the correct handling of the site, see paragraph 6.8. Make sure to wear shoe covers during all the application steps.

6.1.2. Recommendation on the application of CREATIVO® TOP

As mentioned in paragraph 5.1, application of the full system should be done at a room and surface temperature between +8°C and +30°C. Relative humidity should not exceed 75%. In particular, for **CREATIVO® TOP**, two-pack water-based PU sealer, we recommend to apply it at controlled temperature, as too high and too low temperatures or high relative humidity might affect both the final aspect of the finish and its performance. For the same reason, in case of direct sunlight, we recommend to shade the windows during the application and drying of the topcoat.

6.2. Application on walls

For application of **CREATIVO®** system on vertical surfaces without ceramic tiles or similar coatings, it is possible to apply 1 coat of **SMARTCOAT 0.4 mm** instead of the 2 coats of **CREATIVO® FONDO**. Procedure is as follows: Scrape and brush off loose paint and plaster. Surface must be solid, compact, clean and dry, free from any defect or impurities that might compromise adhesion of the following coat or the successful outcome of the work. Eliminate any infiltration, mould, bacteria and salt. Dilute **SMARTCOAT 0.4 mm** with water (max 10%) before use. Apply by brush or roller and wait 6 hours before application of the following coat. Proceed with 2 coats of **CREATIVO® FINITURA** and subsequent system steps as described above. If the vertical surface is covered by ceramic tiles or similar coatings, follow the same instructions for the horizontal application.

6.3. Stairs

For the application of **CREATIVO®** on stairs, it is necessary to firstly adequately prepare the step according to the type, then follow the procedure described at paragraph 6.1 for indoor stairs and 5.3.5 in the case of outdoor stairs.

6.4. Corner and edges

The junction point between wall and floor requires special attention during the application.
There are 3 ways to finish microcement at this point:

1. rounded corners
2. installation of a skirting
3. Sharp edges by cutting the microcement.

6.4.1. Rounded corners

Rounded corners can be created where there are the conditions for them, i.e., there is no existing screed with the presence of an under-screed matt along the perimeter. Where possible, it is first of all necessary to apply specific high-thickness fibre-reinforced mortar to create the rounded corner in the required dimension. Let the mortar dry as per manufacturer's recommendation and make sure it is completely dry before applying **CREATIVO®**. In the case that microcement is applied both on floors and walls we recommend to first apply it on walls, then on floors. If the microcement is applied only on floor, the application of the microcement will need to be executed also on the wall up until 10 cm from the floor or at least until the rounded corner previously created has been completely coated with microcement. Make sure to properly seal the area with **CREATIVO® TOP**. Rounded corners are most frequently used in showers and floors where joints and deposit of dirt is absolutely to be avoided (eg. hospital floors)

6.4.2. Installation of a skirting

In the case that a skirting will be installed over the microcement, it will not be necessary to finish the microcement in detail in the perimeter. However, it is essential to seal the perimeter properly and apply the skirting correctly. In general, we recommend skirting boards with a more minimal look, with reduced thicknesses and few joints.

6.4.3. Sharp edges by cutting the microcement

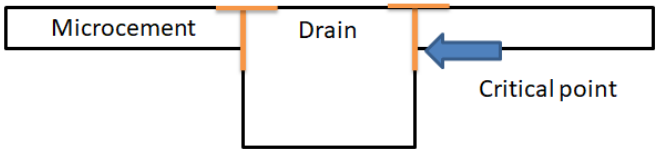
It is also possible to create a skirting with the microcement. In this case it will be necessary to apply the full **CREATIVO®** system both on the floor and to the end of the wall for a height of 6-8 cm from the bottom. We recommend to apply both coats of **CREATIVO® FONDO** and **CREATIVO® FINITURA** on the floor and wall area designed for the skirting first. At the

junction between floor and wall it is always possible that movements may occur which is why it is strongly recommended to perform an expansion joint in correspondence with the junction between wall and floor, proceeding as follows: create a straight line along the edge line with the aid of a specific saw with diamond disc, then vacuum all dust and apply **CREATIVO® PRIMER** and **CREATIVO® TOP** as per standard procedure and with the help of a flat brush on the cut. Once the topcoat is dry, apply masking tape on the sides of the cut, then seal the cut with PU sealant in a similar colour to that of the microcement. In the case that the microcement is applied on both wall and floor, the cutting procedure will be the same. We recommend application first on the wall and then on the floor.

6.5. Application in the shower

For application of **CREATIVO®** in a shower, first evaluate the type of substrate and condition. In the case that the substrate is new and is a cementitious one, proceed with the application of **CREATIVO® BARRIERA.** In the case that waterproofing of the shower floor is required, proceed with specific waterproofing membrane before application of **CREATIVO® FONDO**. The right slope needs to be considered to guarantee the water flow. We recommend to create a slope of at least 1 cm per linear meter. Inside the shower it is necessary to apply full **CREATIVO®** system and interpose a 90 g/m^2 fiberglass mesh if a mesh has not been already applied in the underlaying mortar or if unsure. In the shower we recommend application of 3 coats of **CREATIVO® TOP**. The 2nd and 3rd coat should be catalysed 50% instead of 25% (2 component B for each component A). Said procedure is required on the shower floor but it is also recommended on the rest of the shower. Pay special attention to the correct application in the drain, to its correct sealing and to the sealing of any element that could cause water infiltration. After application of the first coat of **CREATIVO® TOP**, cut the surface with specific saw with diamond disc in correspondence with the drain. Seal the whole perimeter of the drain with specific PU sealant or silicone, both vertically and horizontally, being particularly careful around the critical points which are indicated in the below picture (pic.3).

Picture 3. Critical points of the drain



After the sealant has dried, complete the application of **CREATIVO® TOP**. The surface of the drain is composed by different materials, with different elastic modulus and can consequently be subject to different movements. This movements may eventually lead to the creation of micro-cracks, through which the water penetrates the surface and is then absorbed by the vertical section of **CREATIVO®**, leading to stains, blisters and failure of the system (e.g., Picture 4). This

is the reason why it is very important to properly protect the area with **CREATIVO® TOP** and specific sealant. Wait at least 7 days from the last coat before using the shower for the first time.

Picture 4. Water infiltration through the incorrectly sealed drain



6.6. Drying time, first cleaning and protection

Wait at least 24 hours before walking on the surface. We, although, advise to wait 3-4 days to have greater resistances. 80% of the chemical and physical resistances are achieved after 72 hours. For complete curing and performance wait 7 days. Environment and surface temperature and humidity can affect drying and filming time. Wait at least 7 days before cleaning the surface for the first time and moving anything heavy on the surface. Do not place heated items directly on the surface. Do not cover with a plastic film. **CREATIVO®** system achieves the declared compressive and flexural strength after 28 days from full system application. The support bases of the furnishing elements must be sufficiently wide so as not to have an excessive punctual load. When moving furniture, avoid dragging it, but lift it instead.

6.7. Control Joints

As mentioned in paragraph 5.2, control joints need to stay free to absorb substrate movements. For handling of the control joints in the microcement flooring system, there are two recommended options:

6.7.1. Use a stainless-steel stress-relieving control strip in correspondence of the existing control joints, after saw-cutting them with a diamond disc and fixe it with a PU sealant. The strip will remain visible (solution mostly used in correspondence with doors).

6.7.2. Replicate the control joints in the microcement flooring system: once **CREATIVO® FONDO** and **CREATIVO® FINITURA** have been applied, saw-cut the surface in correspondence with each control joint, that has been previously marked. Make sure the cut is deep enough to fully cut the microcement and reach the below screed.

Vacuum the dust that has developed on the full surface and in correspondence with the cut, and apply **CREATIVO® PRIMER** and **CREATIVO® TOP** on the whole surface and in the cut. Once the system is completely dry apply a low-modulus silicone sealant (e.g., MAPEFLEX PU 45 FT Mapei) in a colour that is as similar as possible to that of microcement following the instructions of the manufacturer.

6.8. Relevant Notes

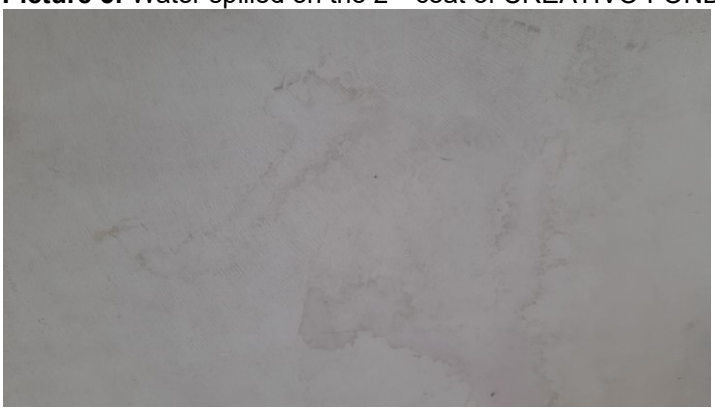
- During the whole application, the temperature of both the work environment and substrate should be between + 8° C and + 30° C. Relative humidity must not exceed 75%.
- Avoid curing with temperatures of environments and substrate below +5°C.
- Protect the treated surfaces from driving rain, water, dirt, etc. for as long as necessary for the complete curing of the product.
- Obtain enough of the colour in a single batch to complete the job or at least complete portions of work which do not draw attention to shade differences.

6.9. On-site precautions

- During the application, access to the area should be limited to the professional microcement installers. No other personnel present on site, should be working and/or walking on the microcement floor that is being installed, until the system has been fully applied and has properly cured. In the case that, that is not possible, due to site contingency make sure that at least the following indications are followed:
- During the drying stage of each coat, walking on the surface is strictly prohibited, no pouring of water or any substance is allowed.
- The site personell should check with the professional installers whether the last coat applied has dried a sufficient time to be walkable.
- It is possible to walk on the dry coat only wearing shoecovers.
- Even after the coat is dry, avoid any type of potential scratch or mark and contact with water, dust, dirt or any staining substance. Do not drag any heavy equipment, equipment, tool, piece of furniture, etc. on the surface.
- Do not cover the surface with any type of material or coverings up until the full application has been performed and the system has cured the recommended time.
- During the application and drying of CREATIVO TOP, water-based two-pack PU sealer, the surface should be protected from dust and direct sunlight.

Stains, scratches and marks like the one in Picture 5 and 6 will not only affect the final look of the microcement, but may also affect it mechanical resistances and performance:

Picture 5: Water spilled on the 2nd coat of CREATIVO FONDO



Picture 6: Scratch marks on the unfinished floor



- Even after the system is completely dry and cured, do not cover it with any film or covering, especially not plastic ones which are not vapour permeable. The system has medium permeability and covering it with a vapour-proof film will create the risk of development of moisture and blistering of the surface.
- If you need to work on the surrounding area, only once the 7 days from the last coat have passed, it is possible to use a vapour permeable protective felt. Use it only during the operations and remove it immediately at the end of the work shift (leave it for less than 12 hours each time).
- Because of its cementitious component, full mechanical resistances are achieved after 28 days. Avoid dragging heavy furniture on the surface or high punctual load during that time.

Picture 7: Damages after the floor has been covered with plastic sheet



7. Care & Cleaning tips

Wait at least 24 h from the application of the last coat before walking on the surface. Avoid any abrasive action, avoid deposit of dirt, wet, oily or staining substances during the drying stage.

Wait at least 7 days for the topcoat to fully cure and guarantee its maximum resistance to friction, abrasion and dirt.

Wait at least 7 days before cleaning the surface.

Any aggressive substance, such as wet, dirt, oily, staining substances, should be removed from the surface protected with 2 coats of **CREATIVO® TOP** within 2 hours from deposit, and within 4-6 hours if the surface was treated with **CREATIVO® TOP** in 3 coats, as by prolonged contact the staining substance might be absorbed by the microporosity of the film and deteriorate its appearance irrevocably.

7.1. Floor Cleaning Protocol

During multiple lab tests to achieve the HACCP certification, **CREATIVO® MICROCEMENTO** has shown an excellent resistance to both alkaline and acid detergents. In any case ordinary cleaning of surfaces must be performed with neutral detergents according to the procedures described below. Do not clean with steam cleaner.

The following cleaning protocol is valid for all surfaces treated with **CREATIVO® MICROCEMENTO** full system. The selected products are eco-friendly certified detergents with reduced content of polluting substances. The concentration of the product has been verified to avoid chemical aggression and deterioration of the finish.

7.1.1. Ordinary Cleaning

Cleaning has to be performed within 2 hours from the staining with wet dirt of the surface treated with **CREATIVO® TOP** in 2 coats, or within 4-6 hours from the staining with wet dirt of the surface treated with **CREATIVO® TOP** in 3 coats, as per following procedure: dose **LIME** (TDS in Annex II) or equivalent product, in the dedicated bucked or tank. CONCENTRATION: 1% (10 ml of product in 1 l of water). Spread the solution on the floor manually by mop or cleaning pads, or mechanically with a fully functioning floor cleaning machine. It is not necessary to rinse it after. The treated surface must be left perfectly dry, without residual deposits of water or liquids in general.

7.1.2. Extraordinary Cleaning

For a deep cleansing with degreasing effect, use **EUR** (TDS in Annex II), or equivalent products. CONCENTRATION: 5% (50 ml of product in 1 l of water). Spread the solution on the floor manually by mop or cleaning pads, or mechanically with a fully functioning floor

cleaning machine. Carefully rinse the surface. The treated surface must be left perfectly dry, without residual deposits of water or liquids in general.

For a radical cleaning of the floor, use the product **CHERODAL** (TDS in ANNEX II), or equivalent products. CONCENTRATION: 5% (50 ml of product 1 l of water).

Spread the solution on the floor manually by mop or cleaning pads, or mechanically with a fully functioning floor cleaning machine. Carefully rinse the surface. The treated surface must be left perfectly dry, without residual deposits of water or liquids in general. Rinse the floor thoroughly. The treated surface must be left perfectly dry, without any residual deposit of water or liquid in general.

8. Touch-ups

Performing touch-ups on microcement requires a high-level of experience and will most probably lead to visible touch-ups.

If the surface gets damaged superficially it is possible to sand **CREATIVO® TOP** with 250G sandpaper and apply 2 new coats of it.

Touch-ups to **CREATIVO® FINITURA** are more complex. In this case it is necessary to either redo the full surface until architectural barriers are met, or reapply **CREATIVO® FINITURA** in the same shade as previously used, on a wider area than the damaged one, with risks of visible touch-ups.

It is possible to conceal visible touch-ups with a decorative finish such as **TENDENZE**, **GLAMOUR**, **VELI D'ORIENTE**, **ART METAL** by Colorificio MP. In this case, however, it will be necessary to apply the decorative finish over the entire work area. Then proceed again with the application of **CREATIVO® PRIMER** and **CREATIVO® TOP** (in 2 or 3 coats). To cover aesthetic defects in the finish or visible touch-ups, it is also possible to colour **CREATIVO® TOP** and apply it in 2 coats by trowel or roller.

CREATIVO® TOP coloured in the desired colour, is also ideal for renovation purposes, to change the colour and further protect the floor.

9. Technical Support

Given the many different factors that may affect the outcome of application, in any case of doubt, during application or maintenance contact our Technical Service by e-mail at mp@mp-paints.com or by phone at +390541734086.

CREATIVO®
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Stabilimento di produzione e laboratori: Via A. Grandi, 27 Viserba - Rimini
C.s. € 114.000,00 i.v. - REA: RN 206276 - Reg. Impr.RN, c.fisc. e Partita IVA: IT 01635040403
www.creativo-microcemento.it

ANNEX I - PACK SIZES & IMAGES



0896FO + 0896MC

CREATIVO FONDO + CREATIVO MICROCEMENTO

Pack sizes	SET	Packages
	15 kg	10 kg + 5 kg
	6 kg	4 kg + 2 kg
Consumption per coat	1 kg/m^2	
Drying time	8 h	
Tool:		



0896FI + 0896MC

CREATIVO FINITURA + CREATIVO MICROCEMENTO

Pack sizes	SET	Packages
	15 kg	10 kg + 5 kg
	6 kg	4 kg + 2 kg
Consumption per coat	0.5 kg/m^2	
Drying time	8 h	
Tool:		



0896PR

CREATIVO PRIMER

Pack sizes	5 l
	1l
Coverage per coat	12.5 m^2/l
Drying time	4 – 6 h
Tool:	



0896TOPA + 0896TOPB

CREATIVO TOP A+B

Pack sizes	SET	Packages
Clear	3 kg	2.5 kg + 0.5 kg
	1.2 kg	1 kg + 0.2 kg
		3.125 kg + 0.5 kg
White	3.625 kg	

Consumption per coat 0.5 kg/m^2
Drying time 6 h (max 24 h)
Tool:





0596

CREATIVO AUTOLIVELLANTE

Pack sizes	25 kg
Consumption per coat	1.7 kg/m^2 per mm
Drying time	48 h

Tool:







0896B

CREATIVO BARRIERA A+B+C

Pack sizes	SET	Packages
	18 kg	1.3+4.7+12.5 kg

Consumption per coat 1.8 kg/m^2 per mm (min 2 mm)
Drying time 24 h
Tool:



ANNEX II – CLEANING PRODUCTS

Lime

ECOLABEL SCENTED DETERGENT FOR CLEANING FLOORS AND WASHABLE SURFACES

LIME is an Ecolabel detergent, envinronment friendly, for ordinary maintenance of floors and washable surfaces, leaving in the treated areas a pleasant and delicate fragrance. Don't need to be rinsed and makes floors clean and shiny.



IT-020/011 EU Ecolabel www.ecolabel.eu

ECOLABEL

Technical Data

Chemical-physical characteristics

Physical state	clear liquid
Colour	yellow-green
Odour	citrusy
pH	8,5+/-0,5
Relative density	1,00+/-0,01

Ecological information

ECOLABEL Reg. IT-020/011. This product meets the environmental requirements of the EU eco-label system.

Packaging materials: 100% recycled plastic bottles; 100% recycled cardboard packaging. The materials are suitable for reuse or for further recovery.

All surfactants are biodegradable according to 648/2004/CE Directives.

Dosing and mode of use

Target	Floors
Dilution	1-3%
Dosing and mode of use	Manually in the bucket with mop/fringe, mechanically in the tank of the scrubber-drier.

Safety information

Product for professional use.
Read the technical data and safety sheet carefully before use.

Contains (Reg 648/2004): methyl glycine diacetic acid trisodium salt, polyacrylate, anionic and nonionic surfactant, perfume and preservatives.

Company certifications

Manufactured in Italy by È COSÌ srl.
È COSÌ is a certified manufacturer:
ISO 9001:2008 (Quality Management)
ISO 14001:2004 (Environmental Management)
ISO 22000:2005 (Food Safety)
SA 8000:2008 (Social Responsibility)
OHSAS 18001:2007 (Safety at Work)
ISO 50001:2011 (Energetic Efficiency)

Packaging and formats

Bottles

Code	Content	Tare	Packaging
01990001EN	**1 KG**	60 g	boxes w/12 pcs.

Tanks and drums

Code	Content	Tare	Packaging
01990050EN	**10 KG**	2,5 kg	plastic tanks

rev. 1 - 07/02/2017

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CREATIVO

Eur

EPD®
S-P-00302
environdec.com

NOT FOAMING MULTI-PURPOSE DEGREASER WITH HIGH EMULSIFYING POWER

EUR cleans and emulsifies the mineral and organic oils from surfaces and floors with extreme effectiveness. It is suitable for the cleaning of all kitchen equipment and worktops. It can also clean very dirty floors, furniture, false ceilings, synthetic carpets and the yellowing due to nicotine and smog.



DEGREASERS

Technical Data

Chemical-physical characteristics

Physical state	clear liquid
Colour	yellow
Odour	typical
pH	13
Relative density	1,07+/-0,01

Dosing and mode of use

Target	Surfaces and equipment
Dilution	Degreasing: 1-5%
Dosing and mode of use	Floor cleaning: 5-20% Manual or Mechanical: with scrubber-drier.

Ecological information

EPD. Environmental Product Declaration based on ISO 14025 - EN 15804 with verified, registered and comparable carbon footprint and full life-cycle data.

All materials are suitable for recycling or reusing. All surfactants are biodegradable according to 648/2004/CE Directives.

Safety information

Product for professional use.
Read the technical data and safety sheet carefully before use.

Contains: aliphatic alcohols, anionic surfactants, adjuvants.

Packaging and formats

Tanks and drums

Code	Content	Tare	Packaging
01420010EN	**10 KG**	500 g	plastic tanks
01420020EN	**20 KG**	1 kg	plastic tanks
01420050EN	**50 KG**	2,5 kg	plastic drums

Company certifications

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È COSÌ is a certified manufacturer:
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CREATIVO

Cherodal

EPD®
S-P-00302
environdec.com

SPECIAL DETERGENT FOR DEEP CLEANING AND MAINTENANCE

CHERODAL is a special detergent for the ordinary and extraordinary deep cleaning of ceramic, terracotta, clinker, quarz cement and single-fired floorings. It can remove the cement residues, glue and traces of footsteps. It respects the metal surfaces, does not damage the chrome and helps to restore the original condition of the floor.



SPECIAL TREATMENTS

Technical Data

Chemical-physical characteristics

Physical state	clear liquid
Colour	colorless
Odour	typical
pH	1,0+/-0,5
Relative density	1,06+/-0,01

Ecological information

EPD. Environmental Product Declaration based on ISO 14025 - EN 15804 with verified, registered and comparable carbon footprint and full life-cycle data.

All materials are suitable for recycling or reusing. All surfactants are biodegradable according to 648/2004/CE Directives.

Dosing and mode of use

Target	Industrial floors
Dilution	Degreaser: 1-5% Deep cleaning: 5-50%
Dosing and mode of use	Manually in the mop bucket or mechanically with cleaning machines.

Safety information

Product for professional use.
Read the technical data and safety sheet carefully before use.

Contains: sulfamic acid, aliphatic alcohols, adjuvants.

Packaging and formats

Tanks and drums

Code	Content	Tare	Packaging
01570010EN	**10 KG**	500 g	plastic tanks
01570020EN	**20 KG**	1 kg	plastic tanks
01570050EN	**50 KG**	2,5 kg	plastic drums

Company certifications

Manufactured in Italy by È COSÌ srl.
È COSÌ is a certified manufacturer:
ISO 9001:2008 (Quality Management)
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ISO 22000:2005 (Food Safety)
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OHSAS 18001:2007 (Safety at Work)
ISO 50001:2011 (Energetic Efficiency)