



M i c r o c e m e n t

Application Guide



M i c r o c e m e n t C o n t e n t

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M i c r o c e m e n t

Basic Informations

San Deco Microcement *Concept & Advantages*

- Creates seamless surfaces without joints.
- Easy to clean and maintain.
- Excellent thin layer capacity. 2-3 mm approximate thickness.
- With its perfect adherence feature, it can be applied on cement, concrete, plastic, plasterboard and even smooth ceramic surfaces.
- Various color options.
- Elegant and modern look.
- Possibility to walk on ability after 24 hours.
- Complete waterproofed condition after 48 hours.



Microcement Specifications



Micro Bubbles

Although it happens rarely these very small bubbles might be caused by the environment moisture level and may come out in specific part of the application. These are not related directly with San Deco microcement but it can be fixed while application process if you realise it.

Fissure (Crack)

The thinness and high adhesion strength of San Deco Microcement prevent fissures in most cases. Fissures only occur when new buildings are subjected to movement or significant expansion as they settle on the ground. This is why every contractor makes an inspection visit to see the ground before starting the project. If cracks are detected during exploration, they will work to prevent the fissures from opening. However, we cannot predict the fissures caused by the subfloor that may occur in the future. In such a case, our product may be affected.

Sheen

Due to the content of the wax, there is always a level of glossiness where even the matt version has a certain sheen when it is looked closely.

Marks and Spots

They can occur during or after application. No need to worry since these are part of the product colors. These are the touches that make your wall or floor special for you. These traces are inherent in the work and should not be avoided.

Irregularities (Non Even) on the floor

We follow the application process determined during the application. At the very beginning of these stages is the base level preparation. If the surface is not smooth, the stages should be started by making the surface as smooth as possible. Due to the minimum thickness of our products, it cannot correct large uneven or porous surface.



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Images















M i c r o c e m e n t

Kitchen Images





M i c r o c e m e n t

Kitchen Images





M i c r o c e m e n t

Kitchen Images





• SAN DECO® •
Paint Manufacturing & Distribution

M i c r o c e m e n t
Bathroom Images



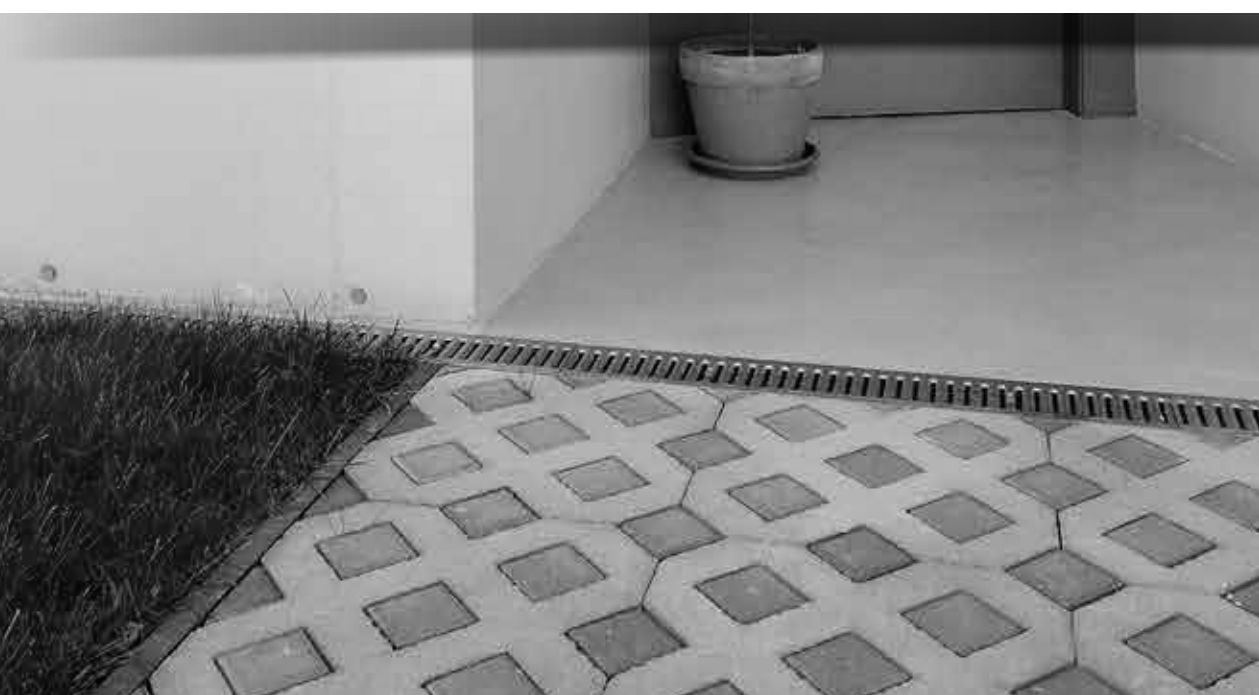
Bathroom Images





M i c r o c e m e n t

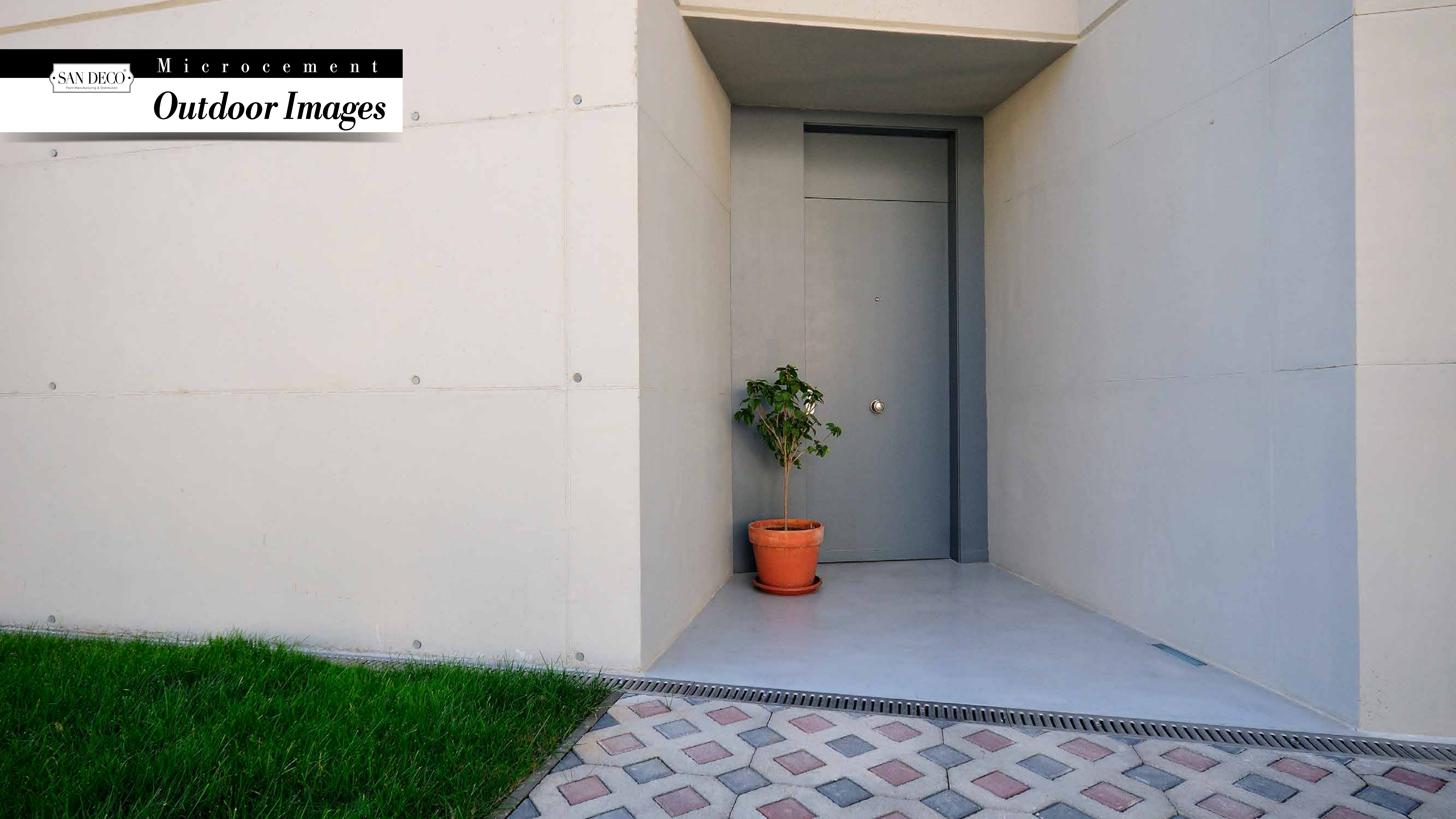
Outdoor Images





M i c r o c e m e n t

Outdoor Images





M i c r o c e m e n t

Outdoor Images





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Outdoor Images





M i c r o c e m e n t

Outdoor Images





M i c r o c e m e n t

Office Images













M i c r o c e m e n t

Stair Images

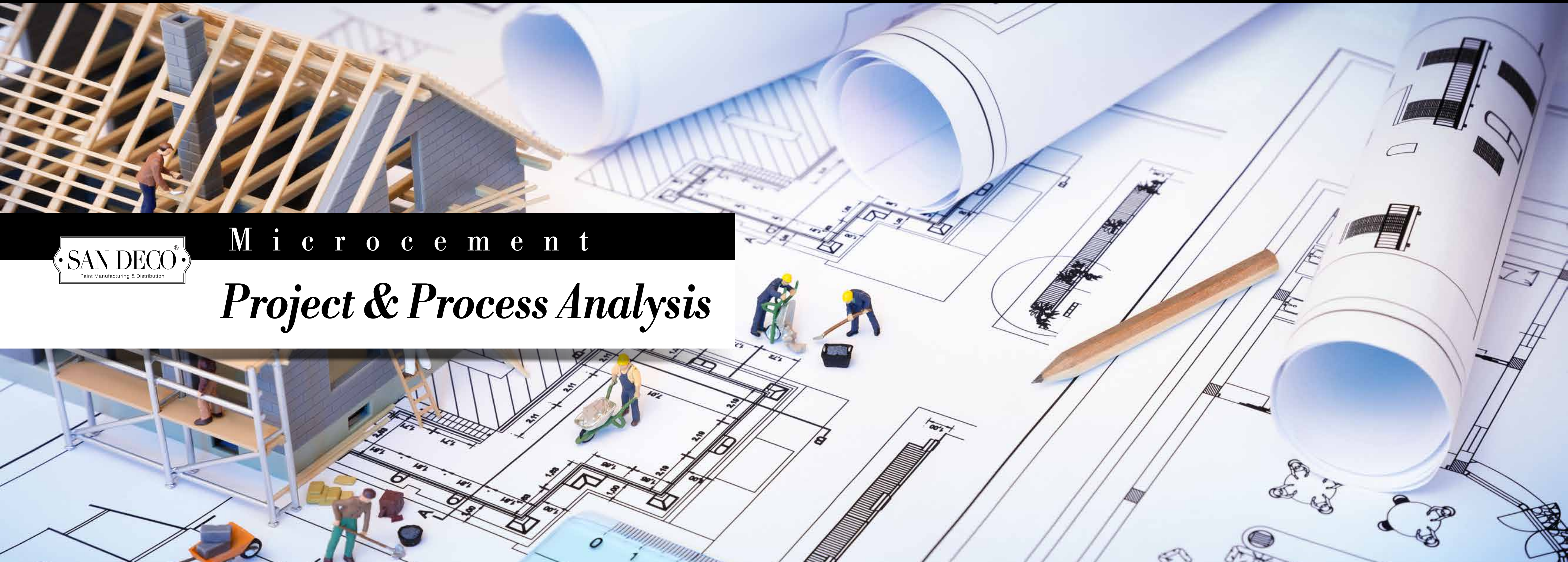






Microcement

Project & Process Analysis



Project & Process Analysis



Prior Considerations

Surface / Base has to be; Flat, firm, well leveled and moisture free.

Suitable Surfaces For Coating:

- Concrete
- Ceramic / Tiles – one of the most suitable if well leveled and coated nicely.
- Mortars
- Marble
- Terrazos
- Epoxy
- Self Leveling cement / mortars – Well coated
- Poorly applied Microcement surfaces previously (Takeover Projects)
- Plasterboard or Mdf panel. Waterproof versions and base coat application: It must be well applied and the joints properly made. The surface should be coated as if it were painted.
- Glass
- Metal

*It **can not** be applied on wooden parquet floors & wooden surface-tables that have joints at the corners and will activate the application surface as they move.*

Stairs & Walls Column Edges





Microcement *Systems Compositions*



Systems Compositions

Surface % moisture rates

Excellent for application without moisture from 0% to 10%

10% to 15% acceptable humidity

15% to 25% color spots may appear

> 25% adhesion problem can be seen

* In San Deco Microcement application, the application is not recommended in an environment with more than 18% humidity.

!! In any case, no application should be made in an environment with more than 22% humidity.

Fissures (Cracks)

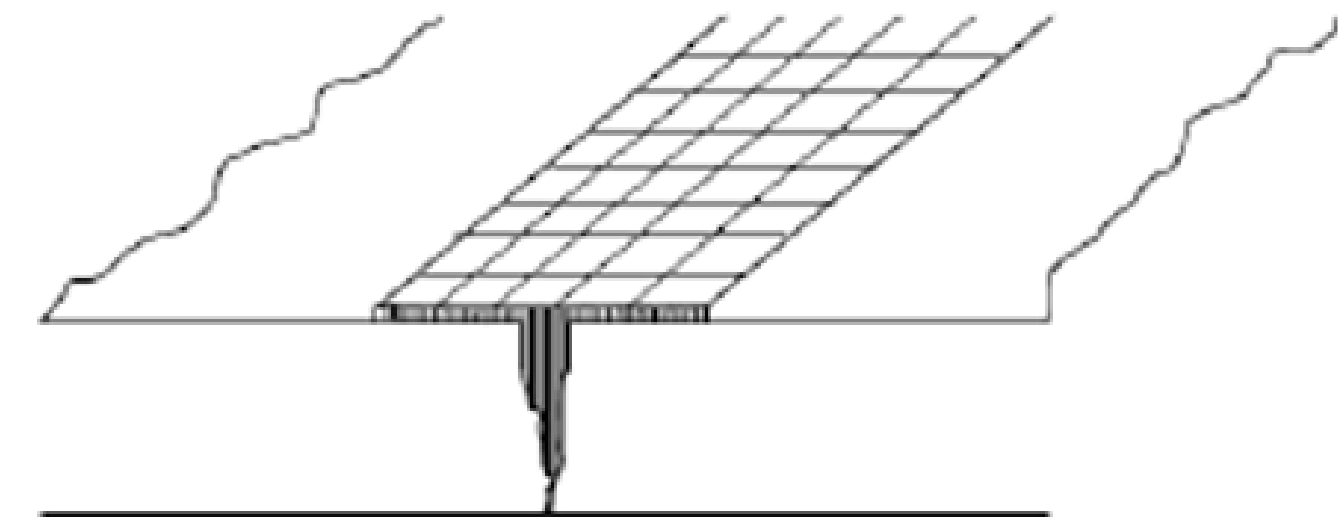
There are 2 types of Fissures :

Passive fissures: These cracks are fissures that are not formed by future movements. They are superficial fissures that usually occur due to shrinkage of concrete and mortars. These fissures are short and can be noticed by their starting point. They show frequent and scattered distribution on the surface.

Active fissures: These fissures occur with temperature or load (weight) changes in the future later on. Such cracks usually appear to form an angle. If the corners or the whole surface are well crossed side by side, they are formed as a result of improper adhesion, insufficient thickness or natural expansion joints.

Possible Solutions or repairs: Passive fissures that do not continue to move do not cause any problems, we can cover them with San Deco Microcement base and remove them. Active cracks can cause some problems in the future, so client should be informed that this type of crack is present and even if all preventive measures are taken after that, these fissures may reappear later in the future.

This problem should be solved with epoxy resin and 15 cm mesh before system application.



Systems Compositions



Base Levelling

The levels requirements of our products can level and a supporting agent will be needed	Leveling mm	Method of leveling
	2-3 mm	San Deco Microcement
	4-15 mm	Self Leveling Agent
	15-25 mm	Ceramic Coatings or Terrazos
	25-45 mm	Cement Mortar
	45 mm	Concrete

Dilatation joint cannot be covered – Always respect these joints when present

Fissures and Joints On The Surface

For other joints conditions, use **Epoxy** according to the base

Base Surface	Condition	Defect That Is Reduced	Observations
Tiling of parts of more than 1,5cm thick, terrazzo,marble,granite,etc	Apply always	Fissures caused by the movement of loose parts generally difficult to detect	If there are loose parts,remove them and stick again
Ceramic Stoneware	Only in contact with natural floors	Avoids rise of humidity throughh the joints	
Mortars	Never applied in continuous layers	Fissure occurence	It applies only linearly on the fissure

Systems Compositions

Material For Base Layers

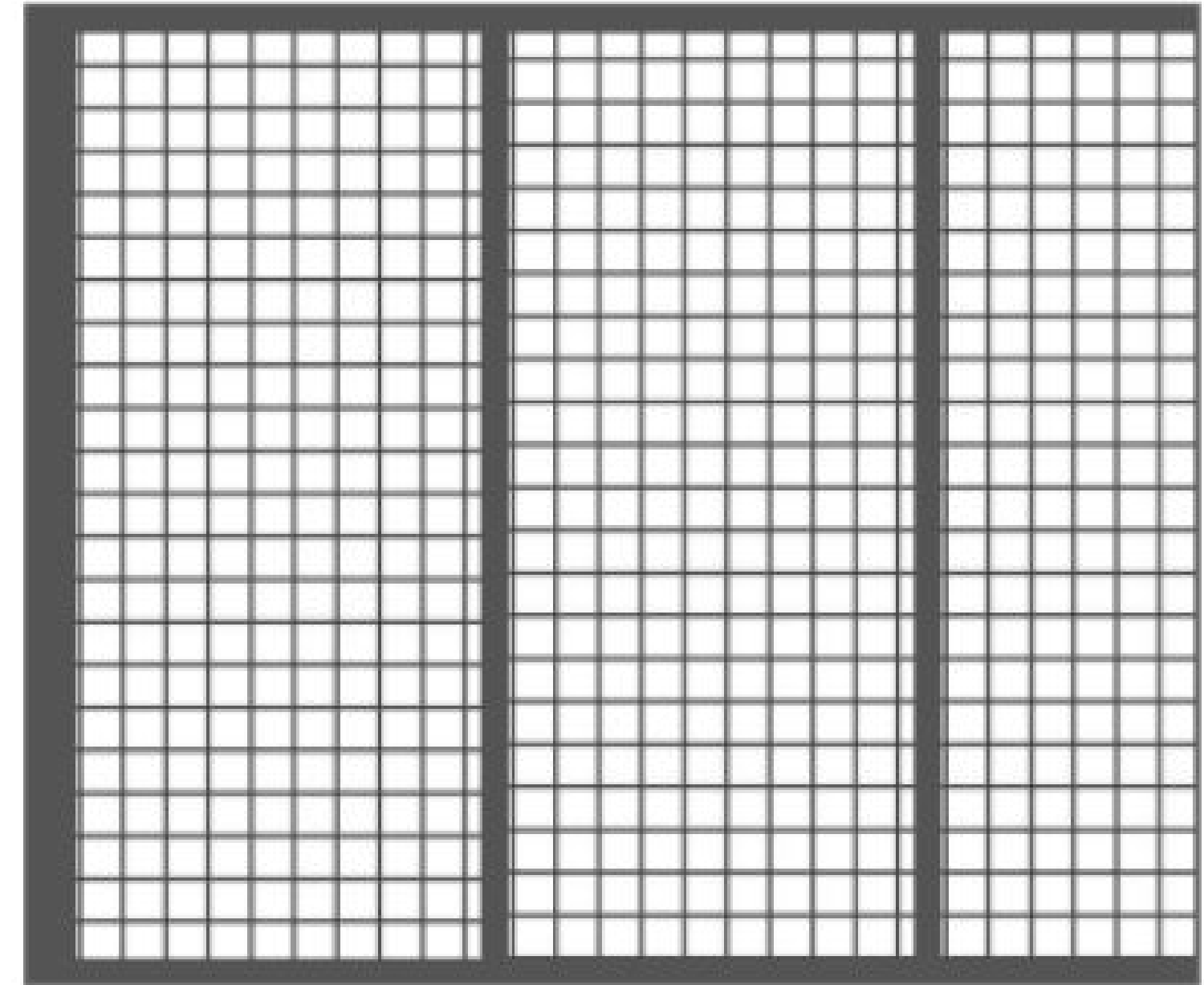


Mesh



Base Liquid + Base Powder

Mesh Application On Floor



- Leave always 1-2 cm from the edges of the Surface/room connection of the wall
- Leave a small gap (aprox 1 cm) between 1 piece of mesh and the other
- Never overlap 2 pieces
- Leave one of it's edge without material with a tape of approximately 5 cm in order to join them when sticking the adjacent

Systems Compositions

Base Layers

The purpose of the San Deco Microcement Base application is to create a connecting bridge between the surface and the San Deco Microcement while at the same time creating a perfectly smooth surface.

Depending on the type of surface to be applied with San Deco Microcement System, Microcement Base application will be required or not applied.

The application of Base Powder + Base Liquid will:

- Decorative-only walls based on Plaster, Pladur or MDF are also not required.
- It is always necessary for walls that are damaged or will be subject to moisture or load.
- It is always required in floor applications.

The amount of necessary layers of Microcemento Base will be depending on of the condition and roughness of the base:

Only 1 coat in concrete walls covered with very fine sand

The remaining surface types are 2 layers including all surfaces.

Material For Color Layers



Deco Powder + Mixing Liquid

Material For Protection



Deco Waterproofing

Deco Sealant

Deco Wax



Tools

			 		
Empty Buckets	Steel Trowel	Steel Spatula	Gloves Knee Pads	Cutter	Fan
					
Brush	Mixing Helice	Protection Glasses	Tool Box	Masking Tape	Propeller Mixer
			 		
Measure Meter	Carton	Sprayer	Solvent Mask Dust Mask	Spot Light	Level
					
Sponge Trowel	Broom	Radial Grinder	Extension Cable	Sand Paper	Sanding Machine



M i c r o c e m e n t

Product Presentation



Product Presentation



Technical Content

CHARACTERISTICS	RESULT
BOND STRENGTH UNE -EN 13892-8	>1,2N/MM2
SURFACE HARDNESS UNE-EN 13892-6	43N/MM2
SLIP RESISTANCE OF UNPOLISHED PAVEMENTS	27
WEAR RESISTANCE UNE-EN 13892-4	160µM
IMPACT RESISTANCE UNE-EN ISO 6272	>14,7 N/M
ARTIFICIAL AGEING UNE -EN 1062-11 4.2 (500 hours)	No blisters UNE EN ISO 4628-2 No cracks UNE EN ISO 4628-4 No scaled UNE EN ISO 4628-5 No color change variation
Equipmen: UV ATLAS Chamber /Lamps : Type 2 (UVA 340) Cycle: 4 hours UV (60±3) °C /4 Hours humidity (50±3) °C Test duration: 500 hours Visual variation of appearance and defects according to standards EN ISO 4628-2; EN ISO 4628-4; EN ISO 4628-5	
RESISTANCE TO STRONG CHEMICAL	
No defects against olive oil,water,coffee and bleach up to 7 days No defects against hair dye,alcohol and vinegar up to 1 day No defects against lemon juice up to 6 hours	

San Deco Microcement can be applied to cover floors, walls, ceilings, facades, stairs and even furniture in residences, commercial facilities, offices, hotels.

GENERALLY RECOMMENDED FOR WALL COATINGS, BATHROOMS, FURNITURES AND RESIDENTIAL FLOORS.

Product Presentation



Microcement System

BASE MICROCEMENT 2 Coats

Base Powder +Base Liquid+Mesh (in 1st layer)

On vertical applications, it may be applied only 1 coat when the wall surface conditions are suitable

MICROCEMENT COLOR - 2 Coats

Deco Powder+Mixing Liquid

*According to color system:
Liquid and Powder can be determined.*

PROTECTION SYSTEM

1 coat of **Deco Waterproofing** (Optionally 2 coats for wet areas)

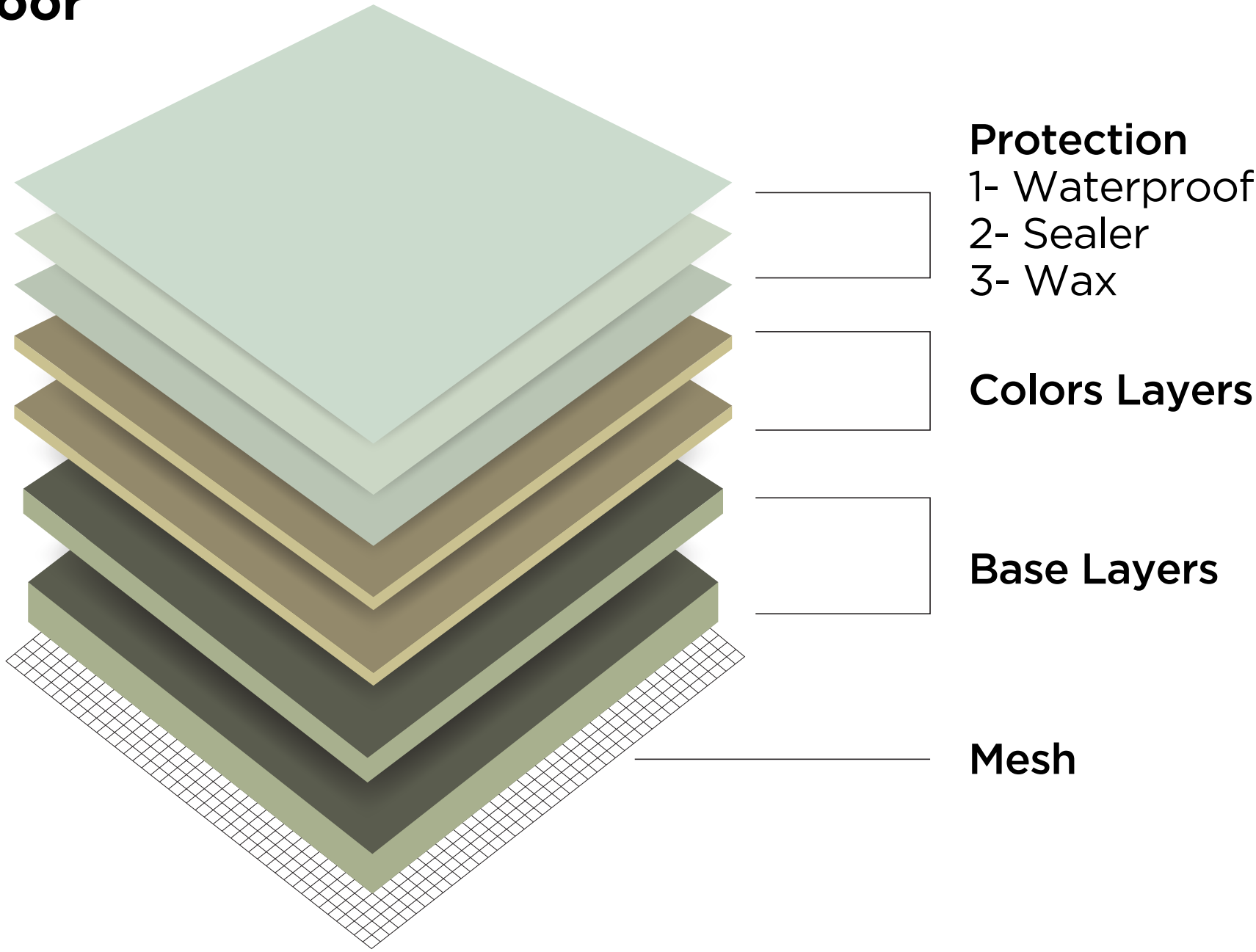
2 coats of **Deco Sealant**

2 coats of **Deco Wax**

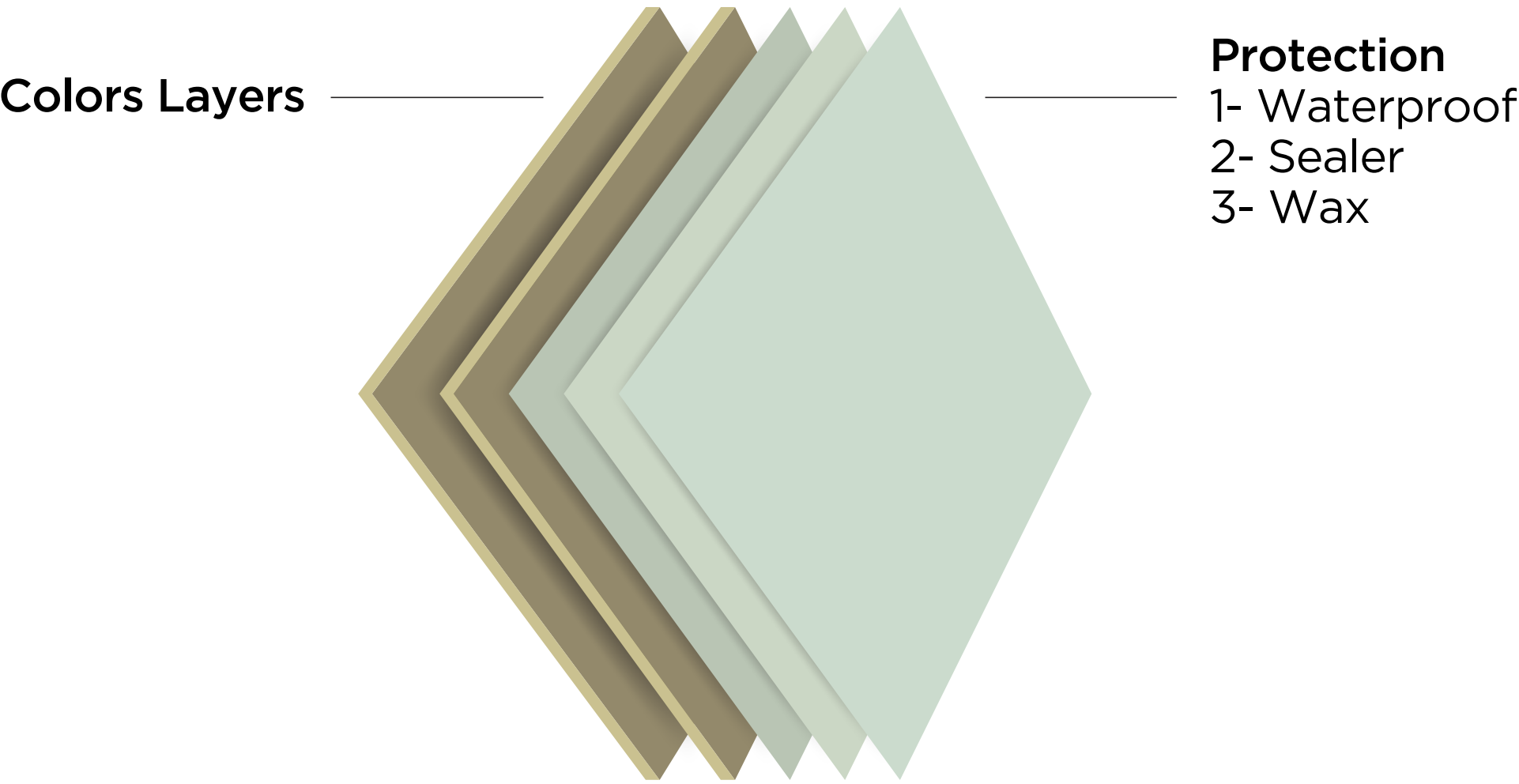
Product Presentation

System Adaptation

Floor



Wall



*** Base Layers**
Application may not be needed if the surface is smooth or decorative use only(For instance plaster, plasterboard, mdf)

Product Presentation



Metallic Finish Collection

Application Method

Apply 3-4 coats of Gold, Silver, Copper metallic sealer instead of Standard Sealer.



Metallic Colors

San Deco Microcement Background Application

For the desired metallic finish look following background colors should be applied.

DESIRED EFFECT	MICROCEMENT BACKGROUND		METALLIC FINISH
GOLD	BROWN		
SILVER	CONCRETE		
COPPER	BROWN		



M i c r o c e m e n t

Commercial Insights



Commercial Insights

Commercial Arguments

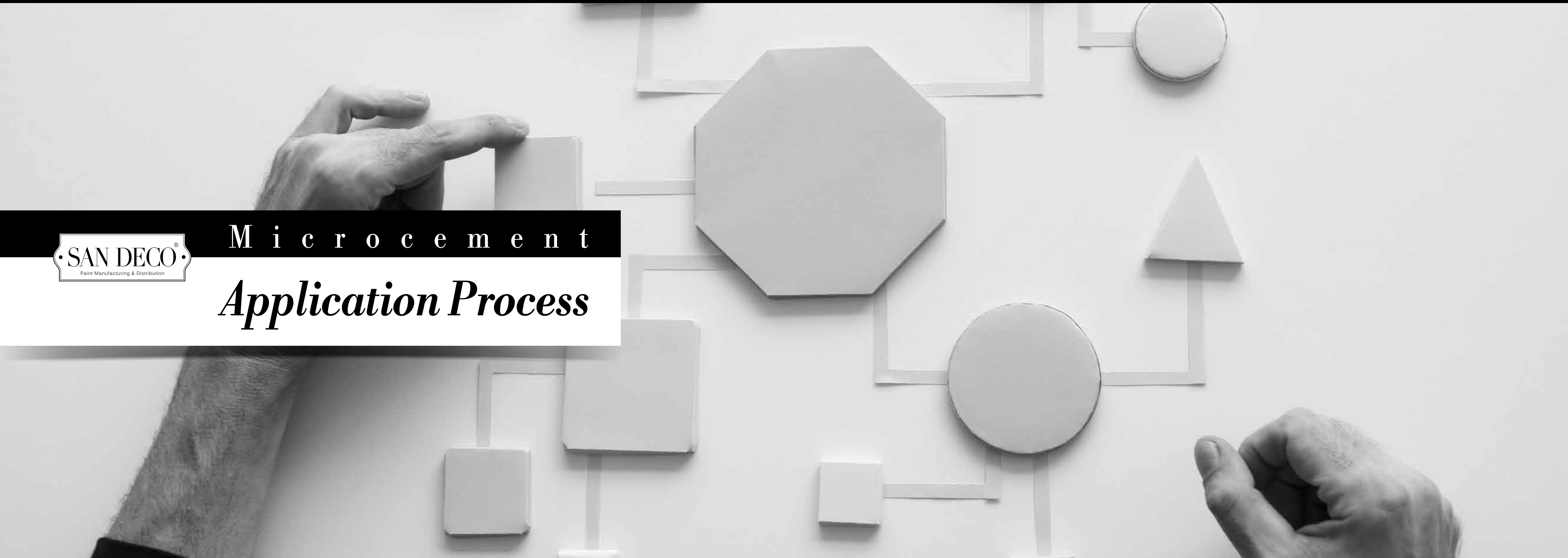
- Multifunctional Use (Versatile) Products
- For New and Renovation projects
- Unique craftsmanship
- Decorative (Esthetics) look
- Seamless coating
- Short application time compared to competitors
- No need to remove existing base
- Texture variety
- Self-colored
- Available for Indoor and Outdoor-Walls, Floors and Furniture coating





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Application Process



Application Process



1. Preparation of the Work Area

Before we begin work, we must allocate a zone where materials and application tools will be placed and it will be called as special zone for workers to prepare.

With regards to this purpose, a suitable place (zone) will be determined and it will be preserved by covering it with cardboard, plastic, etc. in order to avoid contamination during preparation.

It is always recommended to keep this area neat and clean to ensure order and safety.

2. Control of the Application Area

Before starting work, applicators will visit the site for inspection of the whole surface and make sure all conditions are appropriate prior to application.

3. Protection of Certain Areas

The next step is to protect surfaces close to the work area by applying plastic protectors or a special masking tape to the baseboards.

4. Application

The application time can be calculated according to the square meter of the application area. This time should be determined in advance since a master can apply 10-15 m² per day.

Even if the applicators work very carefully and clean, there may be some dust and some odour at some application stages.

It should also be noted that each layer has an effect on the final appearance, so the final appearance of the surface will not be clear until the top coat is applied.

Application Process



5. Cleaning & Control

After all coat applications are finalized, the masters will remove all protective materials from the area and once applied areas are examined and approved, they will finish their work in neat conditions.

6. Customer Approval

After completing our applications, we recommend that you examine the entire area with the client to ensure for full satisfaction. Afterwards, make sure you mutually sign the work completion form and keep a copy of it.

Checklist Before Application

- 1.** Technical Visit: Check surface conditions, measure moisture and determine required materials.
- 2.** Calculate the Material Needed: You can use our excel file to determine the amount of material you need.
- 3.** Don't forget to add tools for applications (steel trowel, mixer, etc)
- 4.** Preparation of the application site: Furniture should be moved out in order to work easily and doors, etc should be removed if those are also an obstacle for application.
- 5.** Scheduling



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Work Force Planning



Work Force Planning



Important Informations

- At least work with 2 masters
- At least 2 days of process for a full application
- More surface to coat = More master is needed
- Make your calculation knowing that each master can apply 10-15 m² of surface in 1 day.

Final Consideration

- Free to walk (transit) after 24 hours
- Waterproofing is achieved after 48 hours.
- It reaches 75% hardness after 5 days and allows heavy parts (furnitures etc.) to be placed on it.
- Complete drying and hardening is achieved after 21 days.

Cleaning and Maintenance

1 RULE: USE PH NEUTRAL PH CLEANER

Recommended Products

- FROSH PH NOTR (degreasing liquid cleaner)
- PRONTO (spray cleaner for furniture)

Accepted Products

- Bleach
- Dishwasher detergent

Never use !

- Anti Lime products
- Chemical substances and solvents in general
- Hydrochloric acid
- Anti-lime and dirt potent cleaner.



M i c r o c e m e n t

Our Certificates



ISO 14001
Environmental Management Certificate



OHSAS 18001
*Occupational Health and
Safety Management*



CE
Market Certificate

Thank You