PLANOCOLOR MICROCEMENT PROTECTION AND MAINTENANCE

DECORATIVE MICROCEMENT COATINGS

SEALERS & WATERPROOFING,
CLEANING & MAINTENANCE
RENNOVATION

EURO CERT
EN ISO 9001:2015

EN 1504 - 2
ACCORDING TO EUROPEAN NORM

EN ISO 14001:2015

CE MARKING & APPLICATION DIAGRAMMS
Learn more ↘

novamix
ADVANCED BUILDING MATERIALS

CE MARKING

A first approach...

Varnishes, water proofing products and sealers are products used to protect surface-coatings of any type and shape. Obviously there are many different coatings and application systems so products with different characteristics are required in order to meet the requirements of each case.
The sealers and waterproofing products in our case are the products used for the protection and the daily maintenance of the PLANOCOLOR MICROCEMENT systems.

CE MARKING & SURFACE PROTECTION PRODUCTS

There is no harmonized standard for 'SEALERS' according to our present knowledge. Exists an EN regarding the protection of concrete (EN 1504-2, MC Method 2.1, 2.2 and 2.3). Since the microcement coatings are composed of cement, aggregates of specific granulometry and special additives, these must be considered as 'micro-concrete' and therefore the EN 1504-2 is the closest standard we can 'match' with such products.

The requirements for the concrete protection, against moisture are of different nature compared to the protection of the decorative microcement coatings. The concrete has to be protected mainly from moisture and chemical agents from the environment like deicing salts or air pollutants in order to avoid degradation and corrosion of the reinforcement while the decorative microcement coatings require protection from household stains such as coffee, red wine, oil, black shoe marks etc. and at the same time, for facilitating daily cleaning and maintenance.
The descriptions listed in the Standard EN 1504-2 enables us to understand how sealers work and waterproof the surface of the decorative microcement coatings.

EN ISO 9001:2015

EN ISO 14001:2015

STANDARD EN 1504-2 & PROTECTION FOR DECORATIVE MICROCEMENT COATINGS

CERTIFICATIONS

In this Standard there are three different 'modes' of action, in which protection against moisture can be achieved.
• **Hydrophobic impregnation**: Products relevant to this category penetrate the surface, creating an internal non visible barrier inside pores and capillaries, without filling these pores. Due to this high penetration ability there is no film created and therefore the final appearance is not altered (see. Figure 1).
The microcement coatings protection requirement is different than concrete relevant requirements, especially on floors, and therefore the products included in this category (waterproofing) in applications such as kitchen benches, floors, etc., do not provide effective protection. In indoor and outdoor wall applications the waterproofers can be considered as a fairly good protection system. Certified NOVAMIX waterproofing products for concrete protection, in accordance with EN 1504-2 are PROTECT 100 and PROTECT 200.

• **Impregnation-'Sealers'**: These products create a non-continuous thin surface film (up to 100μm of thickness) and partially or entirely fill the pores and the capillaries (see. Figure 2). Therefore the final appearance of the surface is affected, and depending on the product used, may provide a mat, satin even up to glossy 'finish'. Certified NOVAMIX impregnation products «sealers» for concrete protection in accordance to the EN 1504-2 are NOVAMIX DRY BRIGHT & PLANOFINISH PU 2KW MAT.

• **Waterproofing Coatings**: These products create a surface coating layer of 0,1-5mm thickness. The appearance of the surface in this case changes drastically. We can achieve this by using PLANOCOLOR LIQUID GLASS, exclusively for indoor applications only.

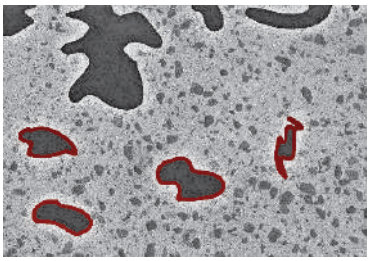


FIGURE 1. The effect of the waterproofing products within the mass of concrete according to EN 1504-2

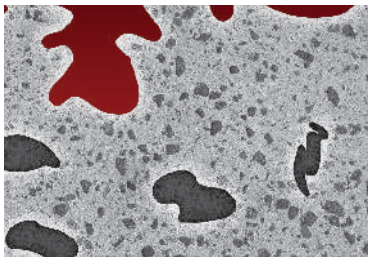


FIGURE 2. The red line shows the way varnishes affect-protect the concrete's surface according to EN 1504-2

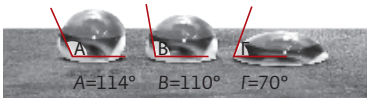


FIGURE 3. The phenomenon of droplet in waterproofed surfaces. Waterproofing exists when the angle is ≥900.

MAIN CRITERIA FOR SEALERS SELECTION

• **The PLANOCOLOR PREMIUM microcement coatings achieve high resistance to chemicals**. This does not apply to the pigments contained in the microcement coating. This is one of the main reasons why we need to protect the surface with varnishes or liquid waxes. The choice of the final protection system is also related to the «household chemicals» used on the surface during the daily cleaning.

• **Type of application**. A key criterion for selecting a sealer is the use and stress of the surface. If e.g. a sealer is not suitable for application on heavy traffic floors it should be applied only in wall applications. If we have a specific application (e.g. swimming pool) only specific varnishes are suitable etc.

• **Final appearance**. Varnishes can give a final mat, satin or even glossy appearance to the microcement coating.

• **Easy cleaning**. The issue in this option depends on two factors. First the right choice of varnish and secondly the way the microcement coating has been applied. Obviously a more rough surface is more difficult to be maintained clean.

• **The applier's experience**. Often it is preferable if the installer has experience in solvent based sealers, to choose solvent based sealers for the application. The application method and relevant consumption largely depends on the type of sealer. Solvent based sealers require a greater quantity per m^2 of product compared to sealers free of solvents. If the installer applies a sealer free of solvents in the same way and quantity as applying a solvent based sealer, this will lead to accumulation of varnish on the surface, which is one of the most common mistakes we meet in microcement applications.

• **Special application conditions**. If e.g. the application is renovating indoors, the solvent-based varnishes are definitely not the most 'attractive' option. In the contrary for outdoor applications due to their setting time speed, solvent-based products are preferred. In any case these and other 'details' related to the application is good to keep them in mind when we choose the sealer on the microcement coating.

NOVAMIX PRODUCTS

SEALERS AND WATERPROOFING PRODUCTS FOR MICROCEMENT DECORATIVE COATINGS

SURFACE PROTECTION

2004/42/EK

DRY BRIGHT

Water based polyurethane sealer with satin finish

Polyurethane aliphatic water-based sealer recommended for protection and enhancement of color in decorative microcement coatings PLANOCOLOR MICROCEMENT mainly on walls and floors with light traffic, indoors or outdoors. Applied in two coats: the first diluted and second undiluted. Do not apply the product in a way that creates «lakes» from excess material. DRY BRIGHT cooperates and can be applied as a primer sealer coat (always diluted) before the implementation of all polyurethane varnishes of the PLANOCOLOR MICROCEMENT system to increase the degree of protection (PLANOFINISH PU 2KW MAT) or to protect the color of the surface from significal change often caused from PU varnishes.
Packaging Plastic bottles 1lt & 5lt.

- ↘ Applied in microcement coatings after **24 – 48 hours**
- ↘ 1st hand diluted with water **1÷1** 2nd hand undiluted
- ↘ Waiting time before 2nd hand **1-2 hours**
- ↘ Waiting time prior to the application of other compatible varnish **1-2 hours**
- ↘ Light traffic after **24 hours**
- ↘ Final curing after **72 hours**

2004/42/EK

PLANOFINISH EPOXY

Water based epoxy varnish with glossy finish

Two component water based epoxy varnish, free of solvents which is applied to protect the decorative microcement coatings PLANOCOLOR on floors, walls and surfaces with heavy chemical stresses such as kitchen countertops, bar, tables, indoor swimming pools. Provides a «shiny» glossy appearance. Highly recommended for applications with heavy use such as exhibition centers, shops, and restaurants. Apply crosswise two coats of PLANOFINISH EPOXY undiluted using a roller and waiting time 30 minutes between them. Do not apply the product in a way that creates «lakes» from excess material. Always apply indoors not coming into direct exposure with sun. PLANOFINISH EPOXY cooperates and can be applied as a first primer coat (undiluted) before the implementation of all polyurethane varnishes of the PLANOCOLOR MICROCEMENT system to increase the level of protection of the surface.
Packaging plastic bottles (2+1)Kg.

- ↘ Applied in microcement coatings after **24 hours**
- ↘ Applied undiluted
- ↘ Waiting time before 2nd hand **30 - 60 minutes - 2 hours** (when the surface is accessible)
- ↘ Waiting time prior to the application of other compatible varnish **1-2 hours**
- ↘ Light traffic after **24 hours**
- ↘ Final curing after **7 days**

2004/42/EK

PLANOFINISH PU MAT

Solvent and water free polyurethane based varnish with mat-satin finish

One component aliphatic polyurethane varnish free of solvents and water which gives a mat to satin appearance on the surface of decorative PLANOCOLOR microcement coatings. Applied in one or two coats always undiluted without excess, giving to the surface excellent resistance to UV radiation as well as to all usual household chemicals. Because PLANOFINISH PU MAT affects the final shade of the microcement coating it is recommended to be applied as coat after application of the DRY BRIGHT or PLANOFINISH EPOXY primer coat. Not recommended for use with permanent presence of water (e.g. swimming pools). It can however be applied to surfaces in casual water contact such as baths, built showers cabins, external floors. Where applied in two layers usually the finish becomes slightly satin.
Packaging metallic pots 1Kg & 5kg.

- ↘ Applied in microcement coatings after **48 hours**
- ↘ Applied undiluted
- ↘ Waiting time after 1st hand DRY BRIGHT **2 - 3 hours**
- ↘ Waiting time prior to the application of compatible varnish **1-2 hours**
- ↘ Light traffic after **24 hours**
- ↘ Final curing after **7 days**

SEALERS AND WATERPROOFING PRODUCTS FOR MICROCEMENT DECORATIVE COATINGS

SURFACE PROTECTION

EN
EN 1504-2
ACCORDING TO EUROPEAN NORM

PLANOFINISH PU 2KW MAT

Polyurethane varnish with fast curing and mat finish

Two component water and solvent based polyurethane varnish with rapid implementation that gives a mat finish to the microcement coatings. Excellent resistance to UV radiation and chemicals. Comparing to other aliphatic polyurethanes doesn't alter the final color of the application surface. For demanding applications such as heavy traffic floors, benches, kitchens, can be applied in two hands after the application of DRY BRIGHT / water 1÷1 or PLANOFINISH EPOXY (undiluted). Not recommended in applications with permanent presence of water (e.g. swimming pools). It can however be applied to surfaces in casual water contact such as baths, built showers cabins, external floors. Suitable as well for protection from graffiti. In any case PLANOFINISH PU 2K/W MAT remain mat without becoming satin at all.
Packaging plastic bottles (3+1)Lt & (0,75+0,25)lt.

↘ Applied in microcement coatings after **12 - 24 hours**
↘ Applied undiluted
↘ Waiting time between 2 layers **15 - 30 minutes**
↘ Waiting time prior to the application of compatible varnish **1 - 2 hours** (DRY BRIGHT) & **2 - 8 hours** (PLANOFINISH EPOXY)
↘ Light traffic after **20 hours**
↘ Final curing after **7 days**

PLANOFINISH PU 2KS MAT

Solvent based polyurethane varnish with mat-satin finish for external and heavy duty applications

Two components, solvent based aliphatic polyurethane varnish that gives a mat-satin finish protection for microcement coating surfaces in areas with heavy use as external floors, showers or baths. Applied in 2 - 3 layers, depending on the conditions and the type of application. PLANOFINISH PU 2KS MAT slightly alters the color of the final microcement coatings surface. To limit this effect it can be applied after priming the surface with DRY BRIGHT / water: 1 ÷ 1. Not recommended for use in applications with permanent presence of water (e.g. swimming pools). It can however be applied to surfaces in casual water contact such as baths, built showers cabins, external floors. If necessary dilute with NOVATHINNER PU. Where applied in two or three layers usually the finish becomes slightly satin.
Packaging metallic pots (3,8+1,4)kg & (0,75+0,25)kg.

↘ Applied in microcement coatings after **12 - 24 hours**
↘ Waiting time between layers **24 hours**
↘ Waiting time prior to the application of compatible varnish **1 - 2 hours** (DRY BRIGHT)
↘ Light traffic after **20 hours**
↘ Final curing after **7 days**

PLANOFINISH PU 2K S

Solvent based polyurethane varnish with glossy finish for external applications and swimming pools

Two component, solvent based aliphatic polyurethane varnish that provides 'glossy' finish protection in microcement coatings in areas with heavy use as external floors, showers or swimming pools. Applied in 2 - 3 layers, depending on the conditions and the type of application. PLANOFINISH PU 2KS alters the color of the final surface. To limit this effects it can be applied after priming the surface with DRY BRIGHT / water: 1 ÷ 1. The specific priming process cannot be used in swimming pools, where PLANOFINISH PU 2KS must be applied in 3 layers. If necessary dilute with NOVATHINNER PU.
Packaging metallic pots (3,6 + 1,4)kg & (0,75 + 0,25)kg.

↘ Applied in microcement coatings after **12 - 24 hours**
↘ Waiting time between layers **24 hours**
↘ Waiting time prior to tha application of compatible varnish **1 - 2 hours** (DRY BRIGHT)
↘ Light traffic after **24 hours**
↘ Final curing after **7 days**

SEALERS AND LIQUID WAX FOR MICROCEMENT SYSTEMS

SURFACE PROTECTION

2004/42/EK

PROTECT 200

Water based repellent protection from water and oil

Water based siloxane emulsion, suitable for oil and waterproofing of microcement coatings mainly in interior and exterior walls. PROTECT 200 does not alter the surface's final appearance allowing the surface to «breathe» while protecting it in depth. Can be applied as primer coat before liquid wax es like PLANOWAX in floor applications.
Packaging plastic bottles 1lt & 5lt.

- ↘ Waiting time before 2nd layer **1 - 2 hours**
- ↘ Waiting time prior to the floor polish application **24 hours**
- ↘ Light traffic after **12 hours**
- ↘ Final curing after **72 hours**

2004/42/EK

PROTECT 100

Water based water repellent

Silicone waterproofing emulsion suitable for protection of microcement coatings from water. Suitable for external walls without «yellowing» or altering the surface's final appearance, allowing the surface to «breathe» while protecting it in depth. Can be applied as primer coat before liquid wax es like PLANOWAX in floor applications.
Packaging plastic bottles 1lt & 5lt.

- ↘ Waiting time before 2nd layer **2 hours**
- ↘ Waiting time prior to the floor polish application **24 hours**
- ↘ Light traffic after **12 hours**
- ↘ Final curing after **72 hours**

2004/42/EK

PLANOWAX

Self polishing liquid wax for protecting microcement coatings

Liquid-wax floor polish applied on microcement coatings exclusively for indoor applications (floors and walls). Protects against normal household chemicals such as oil, coffee, soft drinks providing to the surface a 'warm' and slightly shiny effect appearance. Cleaned with water or neutral detergents such as NOVAMIX NEUTRO CLEANER. When for long-term period there is need to renew the wax liquid, removal is done using ALKALINE CLEANER and rinse thoroughly with water. Then apply again PLANOWAX undiluted without the need to reapply PROTECT 200.

- ↘ Application upon PROTECT 200 after **24 hours**
- ↘ Applied andiluted
- ↘ Waiting time before 2nd hand **1 - 2 hours**
- ↘ Light traffic after **24 hours**
- ↘ Final curing after **72 hours**

2004/42/EK

NOVAMIX WET

Water based synthetic emulsion with satin finish

Hybrid water based emulsion with excellent resistance to solar radiation, recommended for protecting and enhancing the color of microcement coatings mainly on walls and floors with light traffic, indoors or outdoors. Applied in 2 or 3 layers (the first 1 ÷ 1 dissolved with water), 2nd and 3rd layer undiluted depending on the application requirements. The third layer application depends on the texture of the final surface of the microcement coatings. Not compatible with application of PROTECT 100 or PROTECT 200. Removing NOVAMIX WET from the surface is done using ALCALINE CLEANER.
Packaging plastic bottles 1lt & 5lt.

- ↘ Applied in microcement coatings after **24 - 48 hours**
- ↘ 1st hand diluted with water **1÷1** the 2nd hand undiluted
- ↘ Waiting time before 2nd hand **1 - 2 hours**
- ↘ Light traffic after **24 hours**
- ↘ Final curing after **72 hours**

REMARKS DURING THE APPLICATION OF VARNISHES

SURFACE PROTECTION

The «best» varnish applications take place in the automotive industry or the furniture's industry. The particular applications are done in areas completely «protected» from dust or other particles that could alter the final surface.
Here are some tips for those who are going to apply varnishes upon the decorative microcement coatings PLANOCOLOR MICROCEMENT. One of the great advantages of the PLANOCOLOR MICROCEMENT system is that in all cases it can be «corrected» by sanding the varnish from the surface and if necessary by applying only the last layer of the microcement coating. In any case it is better to be careful not to have to intervene.

• **Ensuring the correct application conditions**: Varnishes application in constructions must follow the methodology of other similar systems (e.g. wooden parquet floors). It is critical to ensure during the varnish application that there is no dust at all upon the application surface. For this reason it is recommended to use mechanical absorbers in internal areas or air under pressure for applications in external.

• **Using appropriate tools**: All tools during the application must be clean and suitable for the application.

• **Ensuring the correct quantity**: the varnishes applied quantity is very important in order to achieve a continuous membrane. The microcement coatings are applied by hand leading to a surface without the same absorbency everywhere. To deal with this "issue" we apply the material in excess and then pass the excess quantity that has not been absorbed in the rest untrated surface.

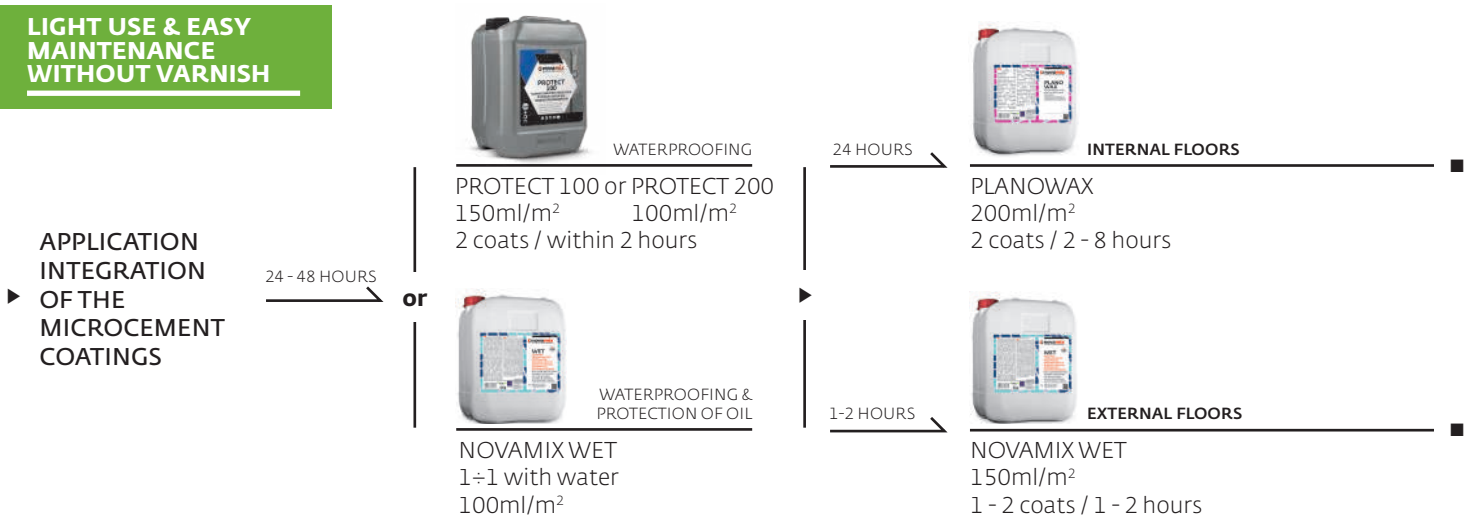
• **Observing the waiting time between layers**: during the varnishes application the waiting time between layers mentioned in the instruction manuals is the minimum waiting time under normal conditions. In any case and for every type of varnish the second layer must applied maximum within 20 hours in order to ensure the maximum bonding of the layers.

• **Checking humidity and temperature**: the substrate's maximum humidity must not exceed 4% while atmospherically relative humidity must be within 35 - 65%. The temperature of the application's surface as well as the environment's must be within +15^{0}C up to +30^{0}C. Lower temperatures prolong while higher reduce the drying time of the varnish. In both cases there is danger not to achieve the correct bonding of the layers.

APPLICATION DIAGRAMS

FLOORS IN INTERNAL & EXTERNAL AREAS

LIGHT USE & EASY MAINTENANCE WITHOUT VARNISH



Note: combinations and consumptions of the varnishes are only indicative. In case of doubts always perform a test.

APPLICATION DIAGRAMS

SURFACE PROTECTION

WALLS AND FLOORS IN INTERNAL AREAS

FAST APPLICATION SYSTEMS FOR RENOVATIONS

APPLICATION OF THE MICROCEMENT COATINGS

PLANOFINISH PU 2KW MAT
undiluted 100ml/m²

15 - 30 MIN

PLANOFINISH PU 2KW MAT
undiluted 50ml/m²

MAT FINISH

or

PLANOFINISH EPOXY
undiluted 100ml/m²

15 - 30 MIN WALLS
1 - 8 HOURS FLOORS

PLANOFINISH EPOXY
undiluted 50ml/m²

SHINNY APPEARANCE

OTHER APPLICATION SYSTEMS

APPLICATION OF THE MICROCEMENT COATINGS

DRY BRIGHT
(1 ÷ 1 with water)
100ml/m²

1 -2 HOURS

PLANOFINISH PU MAT
80gr/m²

SHINNY APPEARANCE

or

PLANOFINISH EPOXY
undiluted 100ml/m²

1 -8 HOURS

or

PLANOFINISH PU 2KW MAT
undiluted 150ml/m²

MAT FINISH

WALLS IN BATHS, INTERNAL & EXTERNAL AREAS

PROTECTION FROM GRAFITTI

APPLICATION OF THE MICROCEMENT COATINGS

DRY BRIGHT
(1 ÷ 1 with water)
100ml/m²

1 - 2 HOURS

DRY BRIGHT
undiluted 50ml/m²

SHINNY APPEARANCE

or

APPLICATION OF THE MICROCEMENT COATINGS

PLANOFINISH PU 2KW MAT
undiluted 100ml/m²

15 - 30 MIN

or

PLANOFINISH PU 2KW MAT
undiluted 50ml/m²

MAT FINISH & PROTECTION FROM GRAFITTI

Note: combinations, consumption and sealers sequence is indicative. In case of doubt hold a test application.

APPLICATION DIAGRAMS

SURFACE PROTECTION

EXTERNAL FLOORS & WET AREAS (NOT SWIMMING POOLS)

SOLVENT BASED SYSTEMS FOR HEAVY USE

- APPLICATION OF THE MICROCEMENT COATINGS

24 - 48 HOURS

DRY BRIGHT
(1 ÷ 1 with water)
100ml/m²

or

PLANOFINISH
PU 2KS MAT

+

NOVATHINNER PU

PLANOFINISH
PU 2KS MAT

MAT FINISH ■

PLANOFINISH PU 2KS
2 coats

+

NOVATHINNER PU

SHINNY APPEARANCE ■

EXTERNAL WALLS AND BATHROOMS WALLS

WATERPROOFING WITHOUT USING VARNISHES

- APPLICATION OF THE MICROCEMENT COATINGS

24 - 48 HOURS

or

PROTECT 100
150ml/m²

1- 2 HOURS

PROTECT 100
50ml/m²

WATERPROOFING ■

PROTECT 200
100ml/m²

1- 2 HOURS

PROTECT 200
50ml/m²

WATERPROOFING & PROTECTION FROM OILS ■

SWIMMING POOLS

PERMANENT PRESENCE OF WATER

- APPLICATION OF THE MICROCEMENT COATINGS WITH PREMIUM SP

24 - 48 HOURS

or

PLANOFINISH PU 2KS
3 coats

+

NOVATHINNER PU

• GLOSSY FINISH
• MIGHT AFFECT - CHANGE THE COLOR
• INTERNAL & EXTERNAL AREAS ■

PLANOFINISH EPOXY
undiluted 100ml/m²

PLANOFINISH EPOXY
undiluted 50ml/m²

• GLOSSY FINISH
• WITHOUT AFFECTING THE COLOR
• ONLY FOR INTERNAL AREAS ■

DETERGENTS FOR MICROCEMENT COATINGS SYSTEM

SURFACE MAINTENANCE

The PLANOCOLOR MICROCEMENT includes all appropriate systems and proposals for maintenance. Many of these products are also suitable for other types of coatings such as ceramic tiles, marble, wooden parquet etc.
There are two types of the maintenance:

DAILY MAINTENANCE

Involves daily cleaning of the surface without interference by mechanical means or removing varnish, floor polish wax, etc. In these cases (see. relevant Suitability- table) the cleaning products applied do not affect the final surface of the microcement coatings and usually are performed by the home user.

SPECIAL MAINTENANCE - RENOVATION

Here are included all cases where it is necessary to repair the protective varnish - sealer layer, the removal and renewal of the floor polish wax (PLANOWAX) and even the change of the color of the microcement coatings (renovation).

Due to the applications variety and different combinations we cannot describe all the maintenance cases which may occur. In order to have a good indication refer to the Suitability Table and the processing diagrams for maintenance – renovation that follow.

APPLICATION DIAGRAMS

SPECIAL MAINTAINANCE

REMOVE OF LIQUID WAX (FLOORS IN INTERNAL AREAS)

Chemical cleaning
Wax removal
Wax renewal

ALCALINE CLEANER
undiluted
1:10 with water

RINSE THROUGHLY WITH WATER

PLANOWAX
2 coatings crosswise
200ml/m² (2 coats)

WET & DRY BRIGHT REMOVAL (INTERNAL & EXTERNAL)

Chemical cleaning
Removal & Renewal

ALCALINE CLEANER
undiluted

RINSE THROUGHLY WITH WATER

DRY BRIGHT

ή

NOVAMIX WET

1 -2 coatings undiluted depending
the requirements 100ml/m² (2 coats)

VARNISHES REMOVAL

Varnish mechanical removal
Final layer varnish application

SANDING WITH
SANDPAPER
40, 60, 80 (*)

REMOVAL OF RESIDUES WITH VACUMN CLEANER OR OTHER TOOL (***) AND VARNISH APPLICATION (**)

CHANGING THE COLOR OF THE MICROCEMENT COATINGS - RENOVATION

Mechanical removal of the varnish & microcement coatings Application of the final layer of the microcement coatings and varnish

REMOVING OF THE
COATING TILL THE
FIBERMESH STARTS
TO SHOW USING A
SANDPAPER 40,60, 80

GOOD DRY CLEANING

PLANOPRIMER
undiluted
80 - 100gr/m²

1 - 15 MIN

APPLICATION OF THE MICROCEMENT COATINGS PREMIUM WITHOUT INCORPORATION OF FIBERMESH

NOTES
(*) the choice of sandpaper depends on the thickness of the varnish, the roughness of texture and the quantity of material to removed.
(**) the quantity and the layers of the varnish applied depend on the special application conditions. We believe that the first varnish we implemented has remained on the surface and we only have to apply one or two coats of varnish of our choice.
(***) during the removal of the varnish, often arises the requirement to change the last layer of the microcement coatings. In this case we follow the procedure of CHANGING THE COLOR OF THE MICROCEMENT COATINGS - RENOVATION

NOVAMIX PRODUCTS

DETERGENTS & SPECIAL MAINTENANCE PRODUCTS

SURFACE MAINTENANCE

NEUTRAL CLEANER

General purpose neutral detergent

Mild action detergent ideal for daily maintenance and cleaning of all PLANOCOLOR SYSTEM coatings. The NEUTRAL CLEANER combines the efficiency of a concentrated, highly efficient professional detergent with the ease of use required for a daily cleaning. For special cases, if necessary, apply undiluted onto slightly wet surface. It is fully compatible with the varnishes of PLANOCOLOR SYSTEM without affecting them and without the risk of damaging them.
Packaging plastic bottles 5lt και 1lt.

↘ Initial application undiluted or **1 ÷ 10** with water

↘ Daily use **1 ÷ 20** & **1 ÷ 30** with water

↘ Consumption depending the application

HARD REMOVER

Acid detergent with mild action

Clear water emulsion of a specific composition, which is applied undiluted to mineral surfaces, chemically reacts with rust, traces of cement, soil and other 'hard' stains. It generally does not cause damage to surfaces such as varnishes of the PLANOCOLOR MICROCEMENT system. However it is recommended always to hold a test application. The application must be repeated if needed and always rinse well in the end with plenty of water.
Packaging plastic bottles 1lt.

↘ Applied undiluted

↘ Consumption depending the application

ACID CLEAN

Acid detergent for removing hard stains

Strong acidic professional detergent for all kinds of hard stains such as salts, cements, plasters. Works without emitting fumes. Unlike conventional acid detergents it does not damage stainless batteries, sanitary and aluminum when in contact with them (not immersion). In microcement coatings it is applied with high dilution, and after holding a test.
Packaging plastic bottles 1lt & 5lt.

↘ Applied diluted **1 ÷ 20 - 30**

↘ Consumption depending the application

DETERGENTS & SPECIAL MAINTENANCE PRODUCTS

SURFACE MAINTENANCE

ALCALINE CLEANER

Extremely strong degrease detergent

Strong alkaline professional detergent ideal for removing wax, certain types of varnishes, marker, black traces from shoes, grease, oil etc over properly protected-waterproofed surfaces of the PLANOCOLOR MICROCEMENT COATINGS. Not suitable for removal of 'hard' stains such as salts, cement and cement based plaster. It can be applied undiluted, in special cases if required but must always be preceded by test in cases of doubt. Consumption: depending on application.
Packaging plastic bottles 1lt & 5lt.

↘ Diluted **1 ÷ 10 - 30** or undiluted for daily maintenance

↘ Undiluted for removal of NOVAMIX WET or DRY BRIGHT

↘ Consumption depending the application

UNIVERSAL CLEANER ALC

General use alkaline detergent

Mild degreaser detergent for daily maintenance of floors with light use in places soiled with grease and require frequent use of degreasing detergent. Recommended for daily use in hotels, houses, business centers. Always rinse well with water. Do not apply on sensitive polished coverings without testing. It is suitable for removing grease, oil etc over properly protected - waterproofed surfaces of the PLANOCOLOR SYSTEM. Not suitable for removal of 'hard' stains such as salts, cement and cement based plaster.
Packaging plastic bottles 1lt & 5lt.

↘ Diluted **1 ÷ 10 - 20** or undiluted for daily maintenance

↘ Diluted **1 ÷ 10 - 20** undiluted for removing PLANOWAX

↘ Consumption depending the application

CLEANCOLL

Thinner that helps removing stains from paints, graffiti and varnishes from coverings and coatings

High performance product that when comes in contact with stains such as epoxy or acrylic paints, polyurethane systems makes them softer allowing us to remove them easily from coverings such as ceramic tiles or decorative PLANOCOLOR microcement coatings. It should not come into direct or indirect contact with acrylic and polyethylene. It does not affect pure aluminum but removes almost every type of paint. Ideal for removing graffiti.
Packaging plastic bottles 1lt.

↘ Applied undiluted

↘ Consumption depending the application

SUITABILITY TABLE

SURFACE MAINTAINANCE

	PLANOFINISH EPOXY	PLANOFINISH PU MAT	PLANOFINISH PU 2KW MAT	PLANOFINISH PU 2KS	PLANOFINISH PU 2KS MAT	DRY BRIGHT ή WET	PLANOWAX
	ALCALINE CLEANER	ALCALINE CLEANER	ALCALINE CLEANER	ALCALINE CLEANER	ALCALINE CLEANER	UNIVERSAL CLEANER	UNIVERSAL CLEANER
OIL	🟢	🟢	🟢	🟢	🟢	🔵	🔵
	ALCALINE CLEANER	ALCALINE CLEANER	ALCALINE CLEANER	ALCALINE CLEANER	ALCALINE CLEANER	UNIVERSAL CLEANER	UNIVERSAL CLEANER
BEER	🟢	🟢	🟢	🟢	🟢	🔵	🔵
	ALCALINE CLEANER	ALCALINE CLEANER	ALCALINE CLEANER	ALCALINE CLEANER	ALCALINE CLEANER	UNIVERSAL CLEANER	UNIVERSAL CLEANER
COFFEE	🟢	🟢	🟢	🟢	🟢	🔵	🔵
	ALCALINE CLEANER	ALCALINE CLEANER	ALCALINE CLEANER	ALCALINE CLEANER	ALCALINE CLEANER	UNIVERSAL CLEANER	UNIVERSAL CLEANER
WINE	🟢	🟢	🟢	🟢	🟢	🔵	🔵
	ALCALINE CLEANER	ALCALINE CLEANER	ALCALINE CLEANER	ALCALINE CLEANER	ALCALINE CLEANER	UNIVERSAL CLEANER	UNIVERSAL CLEANER
SODT DRINGS	🟢	🟢	🟢	🟢	🟢	🔵	🔵
	ALCALINE CLEANER ή CLEANCOLL	ALCALINE CLEANER ή CLEANCOLL	ALCALINE CLEANER ή CLEANCOLL	ALCALINE CLEANER ή CLEANCOLL	ALCALINE CLEANER ή CLEANCOLL	ALCALINE CLEANER ή CLEANCOLL	
PAINT	🔵 🟠	🔵 🟠	🔵 🟠	🔵 🟠	🔵 🟠	🔵 🟠	🔴
	HARD REMOVER ή ACID CLEAN	HARD REMOVER	HARD REMOVER	HARD REMOVER	HARD REMOVER	HARD REMOVER	HARD REMOVER
RUST	🟢 🟠	🔵 🟠	🔵 🟠	🔵 🟠	🔵 🟠	🔵 🟠	🔵 🟠
	HARD REMOVER ή ACID CLEAN	HARD REMOVER	HARD REMOVER	HARD REMOVER	HARD REMOVER	HARD REMOVER	
CEMENT	🟢 🟠	🔵 🟠	🔵 🟠	🔵 🟠	🔵 🟠	🔵 🟠	🔴
	HARD REMOVER ή ACID CLEAN	HARD REMOVER	HARD REMOVER	HARD REMOVER	HARD REMOVER	HARD REMOVER	
LEMON	🟢 🟠	🔵 🟠	🔵 🟠	🔵 🟠	🔵 🟠	🔵 🟠	🔴
	CLEANCOLL	CLEANCOLL	CLEANCOLL	CLEANCOLL	CLEANCOLL		
BITUMEN	🔵	🔵	🔵	🔵	🔵	🔴	🔴

🟢	Removal without deterioration
🔵	Possible deterioration of the varnish or the floor polish – hold a test application
🟠	Possible deterioration of the PLANOCOLOR MICROCEMENT surface
🔴	Not recommended application, will require reconstruction

SUITABILITY TABLE

SURFACE MAINTAINANCE

	PLANOFINISH EPOXY	PLANOFINISH PU MAT	PLANOFINISH PU 2KW MAT	PLANOFINISH PU 2KS	PLANOFINISH PU 2KS MAT	DRY BRIGHT ή WET	PLANOWAX
WAX	ALCALINE CLEANER ή CLEANCOLL	ALCALINE CLEANER ή CLEANCOLL	ALCALINE CLEANER ή CLEANCOLL	ALCALINE CLEANER ή CLEANCOLL	ALCALINE CLEANER ή CLEANCOLL	UNIVERSAL CLEANER ή ALCALINE CLEANER	
GUM	ALCALINE CLEANER ή CLEANCOLL	ALCALINE CLEANER ή CLEANCOLL	ALCALINE CLEANER ή CLEANCOLL	ALCALINE CLEANER ή CLEANCOLL	ALCALINE CLEANER ή CLEANCOLL	UNIVERSAL CLEANER ή ALCALINE CLEANER	
GLUE	CLEANCOLL	CLEANCOLL	CLEANCOLL	CLEANCOLL	CLEANCOLL	CLEANCOLL	
RUBBER	ALCALINE CLEANER ή UNIVERSAL CLEANER	ALCALINE CLEANER ή UNIVERSAL CLEANER	ALCALINE CLEANER ή UNIVERSAL CLEANER	ALCALINE CLEANER ή UNIVERSAL CLEANER	ALCALINE CLEANER ή UNIVERSAL CLEANER	ALCALINE CLEANER ή UNIVERSAL CLEANER	ALCALINE CLEANER ή UNIVERSAL CLEANER
INK	ALCALINE CLEANER ή CLEANCOLL	ALCALINE CLEANER ή CLEANCOLL	ALCALINE CLEANER ή CLEANCOLL	ALCALINE CLEANER ή CLEANCOLL	ALCALINE CLEANER ή CLEANCOLL	UNIVERSAL CLEANER ή ALCALINE CLEANER	UNIVERSAL CLEANER ή NEUTRAL CLEANER
CIGARETTE	ALCALINE CLEANER ή CLEANCOLL	ALCALINE CLEANER ή CLEANCOLL	ALCALINE CLEANER ή CLEANCOLL	ALCALINE CLEANER ή CLEANCOLL	ALCALINE CLEANER ή CLEANCOLL	UNIVERSAL CLEANER ή ALCALINE CLEANER	UNIVERSAL CLEANER ή NEUTRAL CLEANER
URINE & VOMIT	ALCALINE CLEANER ή CLEANCOLL	ALCALINE CLEANER ή CLEANCOLL	ALCALINE CLEANER ή CLEANCOLL	ALCALINE CLEANER ή CLEANCOLL	ALCALINE CLEANER ή CLEANCOLL	UNIVERSAL CLEANER ή ALCALINE CLEANER	UNIVERSAL CLEANER ή NEUTRAL CLEANER
GRAFFITI		CLEANCOLL	CLEANCOLL	CLEANCOLL	CLEANCOLL	CLEANCOLL	
MARKER	ALCALINE CLEANER ή CLEANCOLL	ALCALINE CLEANER ή CLEANCOLL	ALCALINE CLEANER ή CLEANCOLL	ALCALINE CLEANER ή CLEANCOLL	ALCALINE CLEANER ή CLEANCOLL	UNIVERSAL CLEANER ή ALCALINE CLEANER	UNIVERSAL CLEANER ή NEUTRAL CLEANER
VARNISHES RESIDUE	CLEANCOLL	CLEANCOLL	CLEANCOLL	CLEANCOLL	CLEANCOLL		

The technical data and recommendations contained in this leaflet correspond to the best of our knowledge and experience. All the above mentioned information in any case should be considered as merely indicate and subject to confirmation after long term practical applications. For this reason anyone interested of using any product must be sure before hand that the product is suitable for the envisaged application. In every case the user alone is fully responsible for any consequences deriving from the use of the product. We retain the right of renewal of the data of the leaflet without warning. For the latest and valid version of the Technical Data Sheet refer to use website www.novamix.gr or directly to the following QR code of the product.

EN ISO 9001:2015 EN ISO 14001:2015

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