

# PROFESSIONAL POLYCARBONATE SEALANT

Sealant for internal use

 AD LUCEM SAS

by



## APPLICATION AREAS AND FEATURES

- Excellent adhesion to microcement
- Suitable for floors, walls and furniture
- Suitable for floors with under floor heating
- High viscosity to facilitate the application
- Odourless

## PRODUCT INFORMATION

Component A: polycarbonate resin in aqueous phase

Component B: hardener

After mixing, the varnish obtained is white. It becomes transparent when dry.

It is available in EXTRA MATT, SATIN or HIGH GLOSS finish.

|                              | Angle of reflection 60° (*) |
|------------------------------|-----------------------------|
| EXTRA MATT untreated finish  | <10% GLOSS                  |
| SATIN waxed finish           | 30-45% GLOSS                |
| HIGH GLOSS glossy appearance | > 75% GLOSS                 |

(\*) The shine indicated GLOSS according to standard NF EN ISO 2813 is measured with a gloss meter by directing a constant light beam at a given angle on the test surface and measuring the reflection (light reflected from the surface). The higher the measurement is, the more the surface shines. To set the scale of specular reflection, the value 100 is assigned to polished black glass.

A reflection angle of 60 ° corresponds to a visual assessment of the floor nearby from a standing position.

Conditions for the above values:

- Observe yield levels: gloss levels may vary according to the thickness and the porosity of the mortar.
- Perform the measurement after 10 days of drying (final appearance) on an area with 2 layers.
- Stir component A (resin) prior to adding component B (hardener) to obtain a uniform appearance.

## COLOURS

Colourless

## PACKAGING

- 5.4 Kg kit includes:

Component A: 4.5 litre bucket

Component B: 0.9 litre bottle

## PHYSICAL AND CHEMICAL PROPERTIES

Density: about 1.04

Viscosity at 20 ° C: 45 to 50 seconds (AFNOR cup No. 4)

pH: about 9

Solids content: 30% by weight

VOC of the product ready for use: This product contains a maximum of 67 g / L VOC.

EU limit value for this product (Cat A / j): 140 g / L (2010)

## MECHANICAL STRENGTH

Hardness: 167 seconds (test AFNOR 30016 Persoz pendulum)

Abrasion resistance: suitable for extreme places

Light resistance: does not turn yellow

Resistance to chemicals:

| No degradation of the film after 2 hours of contact (after 20 days of drying according to the NF T 30053) |   |
|---|---|
| With cleaning products  | Water, normal liquid detergent without ammonia, commercial bleach   |
| With cold food  | Olive oil, vinegar, red wine, alcohol at 40 °, coffee, tea, Ketchup |
| With hot food   | Still at Pourquery laboratory                                       |

## YIELD

0.20 Litre / m<sup>2</sup> / 3 layers

## TOOLS

Clean container, dosing pot, microfibre roller 12-14 mm (brush new sleeves to remove loose fibres, wet them and then wring them out)

## **CLEANING THE TOOLS**

Clean tools immediately after use with clean water. Finish by washing with soapy water and hang (do not lay them flat on a surface).

Between each layer of sealer, put the roller in a box or roll in a plastic bag to prevent drying, without having to clean and wet it.

## **MIXING RATIO**

500ml of component A (use the dose chamber provided) for 100ml of component B ( use the pot doser 5:1)

## **DILUTION**

None. Any dilution decreases the sealer's performance.

## **APPLICATION TIME FOR THE MIX**

2-3 hours at 20°C

## **DRYING TIME**

Dust free: 30 minutes

Between coats: 3-5 hours. Do not exceed 8 hours of drying (maximum 12 hours) to ensure optimum adhesion with coats of sealer.

Before low traffic: 24 hours, taking some precautions because the sealer is not dry right through and is still delicate.

Dry right through: 15 days. Wait 7 days before placing furniture and 15 days before laying the carpet.

Drying times are given at 20 ° C and 65% relative humidity for layers of a normal level of thickness. Poor ventilation, applying layers which are too thick, at too low a temperature and / or too much relative humidity will slow the drying time.

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## **PREPARING THE SURFACE**

According to NF P 74-201 DTU 59.1 Painting of buildings.

The mortar's humidity level should be below 5%. The use of a hygrometer is recommended. In hot and dry weather conditions, the microcement must be left to dry for at least 24 hours before the sealer is applied. In cold or humid weather, the microcement must be left to dry for at least 48 hours before the sealer is applied.

Before applying the sealer, the microcement should be lightly sanded (120 grit) to even it out.

Thoroughly dust the floor and the walls before applying any product.

For under floor heating, turn off the heating 48 hours before applying the sealer and gradually turn it back on after 7 days, in line with the professional regulations in force.

## HOW TO USE

Room temperature, the temperature of the surface and product temperature: 12 to 25 ° C

Relative humidity of the room: <85%

Lack of air flow

## PRECAUTIONS

Refer to the NF P 74-201 DTU 59.1 standard for Painting of buildings.

Use only dry or fully wrung out tools.

## MIXING

Shake the two packages separately.

Measure 500ml of Part A (sealant) and pour into a clean container.

Measure 100 mL of component B (hardener).

While mixing component A (sealant), add component B (hardener). Mix thoroughly and immediately to get an even distribution of the hardener.

Leave to react for 10 minutes for the mix to be active then stir again before applying. Do not dilute.

Only prepare the mixture for one layer.

For large areas, regularly add freshly prepared product to the remaining amount as simultaneously preparing multiple units and adding them together significantly reduces the life of the mixture and causes a sharp increase in the temperature of the mixture.

If using an already opened can, be careful when opening to make sure that the dried varnish particles do not fall into the varnish. These particles are insoluble and can only be removed by sieving.

## APPLICATION

Apply the sealer in even, fine cross layers finishing in the direction of the light and avoiding excess thickness, bulges and drafts. Applying too thick layers causes issues with drying which reduces adhesiveness and resistance to dirt.

Apply to small areas of 2 or 3 square metres at a time and be careful to always make the connections wet on wet. Be sure to apply the sealer without pressing too hard on the roller and also avoid overworking the product as it begins to dry.

Carefully check the consumption of the product in order to use the right amount with regards to the yield. Layers which are too thin will lead to insufficient protection and cause premature wear. Layers which are too thick will lead to drying issues.

Be careful to take into account the drying process of sealers in the aqueous phase, a layer which is currently drying does not have a smooth appearance.

Only apply a new layer once the previous coat is properly dry (between 3 and 5 hours of drying time, no more than 8 to 12 hours). In the case of more than 48 hours drying between coats, it is essential to carefully sand the entire surface (150 grit).

To get a good finish on EXTRA MATT sealer, first apply 2 layers of SATIN or HIGH GLOSS sealer. Only apply the EXTRA MATT sealer for the 3rd and final layer.

## FINISH AND USE

The sealant and the microcement should harden right through.

Wait

- 4 days before using water on it
- 7 days before placing furniture
- 15 days before laying carpets.

Within 2 weeks after sealing:

- Do not leave liquid on the sealant for too long : remove immediately and use a rubber squeegee cleaner to clean the shower areas straight after use
- Do not cover with a carpet.
- Be careful when moving heavy furniture.

But also:

- Place protective pads under the feet of furniture, tables and chairs.
- Place a doormat at the front door to keep out gravel and grains of sand.
- Change office chair wheels for wheels with softer, colourless grips.
- Immediately clean up spills of coloured liquids ( wine, coffee, etc...)

## MAINTENANCE

### Preventive measures

- Clean immediately any coloured liquid for not staining the sealant on the surface
- If the cloth or mop has been already used, rinse thoroughly with clean water before using it on microcement.
- Do not use harsh cleaning agents such as soap, ammonia, multi-purpose cleaner or vinegar or bleach. These are likely to colour and gradually destroy the film of sealer. It is better to use Plastor cleaning products.
- Do not use acidic or anti-lime scale cleaners. These products are likely to damage the microcement.

### Daily cleaning

Daily cleaning can be done using methods which do not use water, eg vacuuming.

### Weekly cleaning

Use Ad Lucem concrete floor cleaner to clean the floor 1-2 times a week.

The frequency of cleaning varies according to the traffic and use.

### Thorough cleaning

Use Ad Lucem intensive cleaner to thoroughly clean the floor.

It removes stains and dirt resistant to Ad Lucem concrete floor cleaner and eliminates the build-up of grease and marks from black-soled shoes.

Intense cleaning should only be carried out occasionally.

Please refer to the advice sheet for cleaning sealed floors.

## SPECIFIC PRECAUTIONS FOR USE

Read the safety information specification on the internet [www.adlucem-matieres.com](http://www.adlucem-matieres.com) for proper use and waste disposal information.

## STORAGE

Make sure that you securely put the lid back on tins after each use. Seal containers (air tight). Pour any leftovers into smaller containers.

A skin may form on liquid in open containers. If this be the case, filter the product before using.

**DO NOT EXPOSE THE CANS TO FROST:** Be aware that once the product has been frozen it shows no visible change or change in consistency, but no longer has its resistant properties and is therefore un-useable.

Keep containers away from extreme heat: Avoid storing cans in vehicles in direct sunlight.

## SHELF-LIFE

1 year in original packaging

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## PERFORMANCE CERTIFICATES

### Heat resistant

Perfect for use on the worktop surfaces, in restaurants, kitchens, etc.

EXTRA MATT, SATIN, HIGH GLOSS finishes: Pourquery laboratory test report Lyon No. LN02084 / N06586 / 0 24/04/07

Test: aluminium kept at 100 ° C placed on the sealer for 20 minutes

### Resistant to hot food

Perfect for use on the work surfaces, in restaurants, kitchens, etc.

EXTRA MATT, SATIN, HIGH GLOSS finishes: Pourquery laboratory test report Lyon No. LN02084 / N06586 / 0 24/04/07

Test: coffee at 80 ° C, tea at 80 ° C, boiling milk

## SAFETY CERTIFICATES

### Fire resistance

It is of European standard for fire resistance compliant with European Standard NF EN 13501-1 (3 layers of sealer applied).

SATIN finish: test report LNE 040871 - DE / 3 24 of September 2012 valid until 24 September 2017

**Rating: M2**

### Non-slip

Non-slip, but not too anti-slip

SATIN finish: Test Labosport No. R100692-D1 of 28/04/2010 compliant with NF EN 13036-4

## ECOLOGICAL CERTIFICATES

### No danger on contact

0% NMP - 0% NEP

NMP has a toxic effect on the reproductive system, which implies a risk to the foetus when a pregnant woman comes into skin contact with liquid NMP.

NEP providers are continuing tests on this material and are not committed to any definitive conclusions on toxicity. Read the safety information specification.

### Environmentally friendly

EC1 R Certification



Certification issued by the GEV Office, the European association which is a reference in the fight against emissions in products which coat floors and the application of these products. This certification certifies low-emitting product.

Indoor air quality A +



Record of environmental and health declaration

Environmental and health declaration sheets, as part of the High Environmental Quality (HEQ) for a site, certify that the product takes into account the overall HEQ approach. It objectively provides quantitative or qualitative indicators of the impacts generated by the product throughout its life cycle. It is performed in accordance with standard NF P 01-010.

## QUALITY CERTIFICATES

### ISO 14001 certification

PLASTOR production is certified as meeting ISO 14001 international quality standard. This implies a real environmentally based approach: compliance with regulation, implementing prevention plans for pollution risks, improvement plans, monitoring the impact of emissions on the environment, sorting and recycling waste, etc.



### ISO 9001 certification



PLASTOR production is certified as meeting ISO 9001 version 2000. This implies traceability and 100% quality production as well as customer involvement in product design for continued improvement oriented toward customers.