

# SLIP-RESISTANT MICROSPHERES

## TECHNICAL DATA SHEET

Creation of slip-resistant floors

Excellent cohesion with varnishes and epoxies

Higher mechanical and abrasion resistance

High transparency

Indoors and Outdoors

**CIMENTART®**  
MICROCEMENT



**INNOVATE SME**

Valid until Nov 16th 2020



**Commitment to the environment**

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## SLIP-RESISTANT MICROSPHERES CIMENTART – TECHNICAL DATA SHEET

The **Slip-resistant microspheres** of **CIMENTART** are fine micro particles of glass.

Its use aims to obtain finishings on floors either decorative or industrial, with a transparent slip-resistance texture over concrete floors, self-leveling, micro-cement, epoxy, etc.

### TECHNICAL DATA

<b>Presentation</b>	<b>Semi-transparent powder</b>
<b>Regulations</b>	<b>UNE-EN 197-1 : 2000: A1 : 2005</b>
<b>Granulometry</b>	<b>75 a 100 microns</b>
<b>Coverage</b>	<b>100-200/ gr/10 m2 3,52 – 7 Oz/ 10,76 sq ft</b>
<b>Containers Format</b>	<b>bucket of 400 grs / 14.10 Oz</b>
<b>Mixture ratio</b>	<b>200 gr/ para 1 kg de polyurethane 7 Oz /for 35 Oz of polyurethane</b>
<b>Slipperiness</b>	<b>Up to C3</b>
<b>Transportation</b>	<b>Materiel considered not dangerous</b>
<b>Ignition point</b>	<b>Non-flammable</b>
<b>Storage</b>	<b>Approx. 12 months on dry places and original bucket sealed</b>

### USE INSTRUCTIONS

The **Slip-resistant microspheres CIMENTART** are used in combination with the **Bi-component polyurethane varnish CIMENTART**.

Mix the two components of the **CIMENTART Bi-component polyurethane varnish** by mechanical means, up to the point you obtain a perfect homogenous mixture, using the following proportions: five parts of Polyurethane (component A) per one part of hardener (component B).

Is important to use the mechanical agitation to do the mixture of the two components to avoid the appearance of craters o differences of shinning due to the deficient dispersion of the components.

Once the mixture is done filter it using a sieve or a plastic or metallic mesh.

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Once we have this mixture and in order to obtain different degrees of slipperiness, use the following instructions:

After adding to the mixture 200gr of the **Slip-resistant microspheres CIMENTART** per each Kg of **Bi-component polyurethane varnish CIMENTART** mix homogeneously.

To obtain a slipperiness degree of C3: Add 200 gr of **Slip-resistant microspheres CIMENTART** to the filtered mixture previously per each Kg of polyurethane.

To obtain a slipperiness degree of C2: Add 100 gr of **Slip-resistant microspheres CIMENTART** to the filtered mixture previously per each Kg of polyurethane.

To obtain a slipperiness degree of C1: Add 50 gr of **Slip-resistant microspheres CIMENTART** to the filtered mixture previously per each Kg of polyurethane.

Once the desire mixture it's done, if you notice littler bubbles, let the mixture stand for 5 minutes before starting the application.

Apply one layer, in an orderly fashion without extending too much the product, using a shorthaired roller, extending it evenly, making sure there are not uncovered surfaces, the **Slip-resistant microspheres CIMENTART** are to be spread through the whole floor. The application is done with fine layers, approximately with the thickness of a paper sheet without leaving material exceedances or puddles.

As you go on with the application, you must agitate the mixture continually to prevent that the Slip-resistant microspheres CIMENTART do not decant n the bottom of the container.

A layer too thick can produce:

- A slow drying process.
- Loose of the hardness level because too much layer. Remember that the recommended amount of product (once the roller is soaked) is 60 to 80 gr/m<sup>2</sup> per m<sup>2</sup>.

Apply a second layer exactly as the first one. On areas that are liable to receive humidity or water and to obtain more Slip-resistance, apply three layers.

Before applying the second layer of the **Bi-component polyurethane CIMENTART**, make sure that the first layer is completely dry.



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The useful life of the 3-component mixture is 1 hr., after this time you will notice an increase of the viscosity of the product and the efficient of the hardener would be gone, even if the viscosity of the mixture were still adequate. It is convenient to use the mixture in less than 1 hr.

It's recommended to crosshatch well the surface while the application is being done to remove any possible air bubbles, mostly in hot, dry or with high ventilation places.

The final dry time before its use must be minimum 72 hrs. The minimum time before been exposed to water is 1 week.

The product is provided ready to be use; we do not recommended to dilute the product, as it will lose it hardness and waterproof properties.

To obtain slip-resistant floors using the **Slip-resistant microspheres CIMENTART** over other products as epoxy or self-leveling, you can do it by sprinkling or mixing of the components, we recommend that you do samples first taking in account the product that you are about tu use and the slipperiness degree needed.

The work tools are clean with water.

### CONTAINERS FORMAT

- 400 grams containers.

### STORAGE

12 months, in a dry place in its original container hermetically sealed.

*CIMENTART MICROCEMENT SL. Our systems are based in the research done at our laboratories and the many years of practical experience we have.*

*We guarantee that our products are manufactured, packaged and labeled under the rules of Normative ISO 9001:2008. We decline any responsibility if the end result is affected by external factors not under our control. The end user must check that the product supplied is adequate to the needs that is going to be used for, doing a test in any case that must be necessary.*

*Review date: 30-08-18.*

*The present document cancels the earlier editions. .*

