

## Hiridium

### TECHNICAL DATA HIRIDIUM

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#### Product description:

With a view to researching new materials and new technologies for the creation of high-performance finishes, in our laboratory we have synthesized a new and very small particle based on zirconium, thanks to the nano resin treatment present in the product, a finish can be obtained whose surface treatment shows exceptional technical-physical properties. The application of Hiridium allows you to create unique textures transforming the surfaces into real metal of extraordinary beauty and absolute exclusivity.

#### Preparation and application of the NK Primer:

- The surfaces to be treated must be clean and free of detached or damaged areas;
1. Apply the NK Primer using a roller and brush;
  2. The product is ready to use;
  3. On porous and/or plasterboard surfaces, the NK Primer must be diluted with drinking water at 20% for the first layer, after six hours proceed with the application of the second layer without diluting the product.

#### Preparation of Hiridium:

- Hiridium is composed of two components, Comp. A for the paste base, Comp. B for the metal powder base.
- Pour the powder into Comp. A in small doses and mix using an electric mixer with a special whisk until you obtain a smooth, lump-free paste.
- After use, the product can be stored for a short period of time.

#### Application of Hiridium:

1. Apply one or two layers of product using a stainless-steel trowel evenly over the entire surface and leave to dry for at least 12 hours (+20°C);
2. Smooth the surface to make it smooth and level by tilting the stainless-steel trowel.
3. Proceed with polishing the treated surface using 1000 and 3000 grit silicon carbide polishing discs using an electric polisher connected to a vacuum cleaner (the use of silicon carbide discs closes the pores of the product, making it shinier and more permeable to water).
4. After polishing, it is recommended to wipe with a soft cloth to remove any traces of metal dust.

#### Application of Hiridium with Patina:

- Patina is ready to use and does not need to be diluted.
1. Dip the sponge in the Patina and wring out.
  2. Dab the surface to make the product uniform.
  3. Leave Patina to dry for at least 6 hours (+20°C).

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V.le Vittorio Veneto, 186 - 96014 Floridia (SR)  
+39 0931 941789 - [www.nikkolor.net](http://www.nikkolor.net)

4. Proceed with polishing the treated surface using 1000 and 3000 grit silicon carbide polishing discs using an electric polisher connected to a vacuum cleaner.
5. Wipe with a soft, dry cloth to remove any traces of metal dust left on the surface.

#### Warnings and recommendations:

- Use temperature: +10°C +30°C;
- Recommended application for interiors and exteriors;
- Do not apply on wet, frozen surfaces or on still damp restorations;
- Do not apply in the presence of strong sun, strong wind or rain;
- During application and in the following 24 hours, the relative humidity must not exceed 80%

#### Hiridium technical data:

- Viscosity (UNI EN ISO 3219): ~130000 mPa\*s;
- Specific weight (UNI EN ISO 2811-1): ~Kg 3 (Comp. A kg 1.5 - Comp. B kg 1.5);
- Dilution: ready to use.
- Coverage: ~9 m<sup>2</sup> (the coverage may decrease significantly depending on the texture applied);
- PH: ~9.00;
- Tools: trowel, brush, roller and spray;
- Drying time of the layer: ~6/8 hours (+20°C);
- Drying time before polishing: ~12 hours (+20°C);
- Curing time for overlaying ProteKto EcoSilan: ~7 days (+20°C);
- Curing time for overlaying Vetroliquido PRP: ~3 days (+20°C);
- Total hardening: ~72 hours (+20°C);
- Resistance to water and UV rays without protection: at least ten days from final polishing;
- Classification by end use (UNI EN 1062.1-4.1): Decoration and Protection;
- Classification by type of binder (UNI EN 1062.1-4.2): Nano resin;
- Classification by state (UNI EN 1062.1-4.3): Aqueous Dispersion;
- VOC classification: Compliant with Legislative Decree no. 161 of 27/03/2006 (Implementation of Directive 2004/42/EC);
- Storage in well-closed original packaging and in a dry place between +5°C and +30°C.

#### Technical data Patina:

- PH: 3/3.2
- Specific weight: 1000 ± 40 g/l (at 20°C)
- Solids by weight: 19.8 ± 2%
- Appearance: Blue/green liquid
- Yield: 8/12 m<sup>2</sup>/Lt. depending on the quantity used.
- Packaging: 1 Lt
- Application: Brush, sponge or spray.

N.B. These times shown above may vary based on the thickness of the product, humidity and environmental temperature.

The indications and methods reported may be subject to additions and/or changes over time by Nikkolor Italia s.r.l.; for any such updates, you can consult the website [www.nikkolor.net](http://www.nikkolor.net). Nikkolor Italia s.r.l. is therefore responsible for the validity, currency and updating of its information only if extrapolated directly from its site. The technical data sheet is drawn up based on our best technical and application knowledge. However, as we cannot directly intervene on the conditions of the construction sites and the execution of the works, they represent indications of a general nature which do not bind our Company in any way. We therefore recommend a preventive test in order to verify the suitability of the product for the intended use.

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