TECHNICAL DATA HIRIDIUM
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Description:

In our research into new materials and technologies for creating high-performance finishes, our laboratory has synthesized a new, ultra-small zirconium-based particle. Thanks to the nano-resin treatment present in the product, a finish with exceptional technical and physical properties can be achieved.

Fields of use:

- Ideal for covering interior walls and ceilings for high-end design and renovations in public and private spaces, shopping centers, shops, bars, villas, and residences.
- The unique feature of the total absence of joints allows for seamless solutions, a true innovation in modern architecture, a refined finish capable of creating unique textures, transforming surfaces into real metal of extraordinary beauty and absolute exclusivity.

Features:

• Realistic and natural metal appearance
• Seamless, seamless surface
• Highly resistant and durable
• Suitable for interior and exterior walls, furniture, and decorative panels

Preparation:

- Pour the "Comp. B" metal powder into the "Comp. A" mixture in small doses and mix using an electric mixer with a whisk attachment until a smooth, lump-free paste is obtained. If necessary, add drinking water until a soft paste is obtained.

Preparing interior walls and applying Hiridium Natural Graphene Effect:

- Substrates must be dry, solid, and free of dust, paint, wax, oil, loose particles, and weathered surfaces.

1. Apply a single coat of Primer NK evenly over the entire surface to be treated using a short-haired roller and a brush;
2. Let dry for 24 hours (+20°C);
3. Apply a single coat of Hiridium, approximately 1 mm thick, using a stainless-steel trowel, evenly and evenly over the entire surface to be treated;
4. Let dry for 24 hours (+20°C);
5. Apply a generous coat of ProteKto EcoSilan using a short-haired Mohair roller;
6. Let dry for 24 hours (+20°C).

Preparing interior and exterior furniture and doors and applying Hiridium Graphene Effect:

- Substrates must be dry, solid, and free of dust, paint, wax, oil, loose particles, and weathered surfaces.

1. Apply a single coat of NK Primer evenly over the entire surface to be treated using a short-haired roller and a brush;
2. Let dry for 24 hours (+20°C);
3. Apply a single coat of Hiridium, approximately 1 mm thick, using a stainless-steel trowel, evenly and evenly over the entire surface to be treated;
4. Let the product dry for 24 hours (+20°C);
5. Using an electric polisher connected to a vacuum cleaner, attach the 1000-grit silicon carbide polishing disc and polish the entire surface;
6. Polish the surface again as before, but replace the silicon carbide polishing disc with a 3000-grit one.
7. Apply a first coat of VetroLiquido PRP using a short-haired (mohair) roller for approximately 1/2 square meter, then immediately smooth the product with a stainless-steel trowel to eliminate any bubbles.
8. Let the product dry for 12 hours (+20°C).

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9. Apply a second coat of VetroLiquido PRP as before.
10. Let the product dry for 48 hours (+20°C).

Preparation of floors, shower stalls, bathrooms, kitchen backsplashes, and interior and exterior surfaces, and application of Hiridium Graphene Effect:

- Substrates must be dry, solid, and free of dust, paint, wax, oil, loose particles, and seasoned surfaces.

1. Lay out the 70/80 g/m2 fiberglass mesh, taking care to position it so that it doesn't crease, overlapping the ends of the mesh by at least 10 cm;
2. Apply a first coat of Primer Beton using a stainless-steel trowel, evenly and smoothly over the entire surface to be treated;
3. Let the product dry for 24 hours (+20°C);
4. Apply a second coat of Primer Beton as before;
5. Let the product dry for 24 hours (+20°C);
6. Let the product dry for 24 hours (+20°C);
7. Apply a first coat of Hiridium using a stainless-steel trowel, evenly and smoothly over the entire surface to be treated;
8. Let the product dry for 24 hours (+20°C);
9. Using an electric polisher connected to a vacuum cleaner, attach the 1000-grit silicon carbide polishing disc and polish the entire surface;
10. Polish the surface again as before, but replace the silicon carbide polishing disc with a 3000-grit disc;
11. Apply a first coat of VetroLiquido PRP using a short-haired (mohair) roller for approximately 1/2 square meter, then smooth the product with a stainless-steel trowel to eliminate any bubbles;
12. Let the product dry for 12 hours (+20°C);
13. Apply a second coat of VetroLiquido PRP as done with the first;
14. Let the product dry for 48 hours (+20°C).

Preparing interior walls and applying Hiridium with a rough Corten effect:

- Substrates must be dry, solid, and free of dust, paint, wax, oil, loose particles, and weathered surfaces.

1. Apply a single coat of NK Primer evenly over the entire surface to be treated using a short-haired roller and a brush;
2. Let dry for 24 hours (+20°C);
3. Apply a single coat of Hiridium, approximately 1 mm thick, using a stainless-steel trowel, evenly and smoothly over the entire surface to be treated;
4. Let dry for 24 hours (+20°C);
5. Apply a single coat of Patina in the chosen color (Blue, Green, Red) using a soft sponge.

Preparing interior and exterior furniture and doors and applying Hiridium Corten-effect paint:

- Substrates must be dry, solid, and free of dust, paint, wax, oil, loose particles, and weathered surfaces.

1. Apply a single coat of Primer NK evenly over the entire surface to be treated using a short-haired roller and a brush;
2. Let dry for 24 hours (+20°C);
3. Apply a single coat of Hiridium, approximately 1 mm thick, using a stainless-steel trowel, evenly and evenly over the entire surface to be treated;
4. Let dry for 24 hours (+20°C);
5. Apply a single coat of Patina in the chosen color (Blue, Green, Red) using a soft sponge;
6. Let dry for 24 hours (+20°C);
7. Apply a generous coat of ProteKto EcoSilan using a short-haired Mohair roller;
8. Let dry for 24 hours (+20°C);
9. Apply a first coat of Decor Finish using a short-haired roller (mohair);
10. Let dry for 12 hours (+20°C);
11. Apply a second coat of Decor Finish as described for the first;
12. Let dry for 24 hours (+20°C).
13. Apply a third coat of Decor Finish as described for the first;

14. Let dry for 48 hours (+20°C).

Preparation of floors, shower stalls, bathrooms, kitchen backsplashes, and interior and exterior surfaces and application of Hiridium Corten effect:

- Substrates must be dry, solid, and free of dust, paint, wax, oil, loose particles, and weathered surfaces.

1. Lay out the 70/80 g/m2 fiberglass mesh, taking care to position it so that it doesn't crease, overlapping the ends of the mesh by at least 10 cm;
2. Apply a first coat of Primer Beton using a stainless-steel trowel, evenly and smoothly over the entire surface to be treated;
3. Let the product dry for 24 hours (+20°C);
4. Apply a second coat of Primer Beton as previously;
5. Let the product dry for 24 hours (+20°C);
6. Let it dry for 24 hours (+20°C);
7. Apply a first coat of Hiridium using a stainless-steel trowel, evenly and smoothly over the entire surface to be treated;
8. Let the product dry for 24 hours (+20°C);
9. Apply a second coat of Hiridium as previously;
10. Let the product dry for 24 hours (+20°C);
11. Apply a single coat of Patina in the chosen color (Blue, Green, Red) using a soft sponge;
12. Let it dry for 24 hours (+20°C);
13. Apply a first coat of VetroLiquido PRP using a short-haired roller (mohair) for approximately 1/2 m2 and immediately smooth the product with a stainless-steel trowel to eliminate any bubbles;
14. Let the product dry for 12 hours (+20°C);
15. Apply a second coat of VetroLiquido PRP as done for the first;
16. Let the product dry for 48 hours (+20°C).

Hiridium Technical Data:

- Viscosity (UNI EN ISO 3219): ~130,000 mPa*s;
- Specific Weight (UNI EN ISO 2811-1): ~3 kg (Component A 1.5 kg - Comp. B 1.5 kg);
- Dilution after dosing: ready to use, or in some cases, drinkable water can be added in the percentage necessary for the desired application;
- Coverage: ~9 m² (coverage may decrease significantly depending on the texture applied);
- pH: ~9.00;
- Recommended application tools: trowel, brush, roller, and spray gun;
- Drying time: ~8 hours (+20°C);
- Drying time before polishing: ~12 hours (+20°C);
- Total hardening: ~72 hours (+20°C);
- Packaging: Comp. A 1.5 kg and Comp. B 1.5 kg;
- Water and UV resistance without protection: at least ten days after final polishing;
- Classification by end use (UNI EN 1062.1-4.1): Decoration and Protection;
- Classification by binder type (UNI EN 1062.1-4.2): Non-resin;
- Classification by state (UNI EN 1062.1-4.3): Aqueous dispersion;
- VOC classification: Complies with Legislative Decree No. 161 of 27/03/2006 (Implementation of Directive 2004/42/EC);
- Store in tightly closed original packaging in a dry place between +5°C and +30°C.

Patina Technical Data:

- Appearance: Liquid;
- Color: Blue, green, and red;
- pH: ~3/3.2;
- Specific gravity: 1000 ± 40 g/L (at 20°C);
- Solids by weight: 19.8 ± 2%;

- Coverage: 8/12 m²/L depending on the quantity used;
- Application: Brush, sponge, spray bottle, airless;
- Packaging: 1 Lt.

The written and verbal technical and application instructions provided to purchasers and installers are based on our experience and the current state of the art in theory and practice. They are not binding and do not create any contractual obligation or secondary commitment arising from the purchase contract. They do not exempt the purchaser from personally verifying, at their own responsibility, the suitability of our products for the intended application purpose. The processing cycles indicated above do not constitute any assumption of liability on the part of Nikkolor Italia s.r.l., which remains exempt from problems arising from incorrect installations.

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