

## TECHNICAL DATA SHEET

### IMPERIUM

#### Technical Qualities

IMPERIUM by OIKOS is a metallic decorative finish for interiors with a Low Environmental Impact. The product makes it possible to create splendid decorative effects in a vast array of colour tones, according to the application tool used.

The “gold leaf”, “silver leaf”, “gilding” and “gold dust” effects give a plush and prestigious feel to contemporary interiors, enriching them with precious elements of the past and recalling the luxury of historical villas.

The material can be used as a final application on other decorative products in order to obtain metallic and three-dimensional textures thus further extending the range of solutions and finishes that can be achieved.

IMPERIUM, in its various colourations, gives the possibility to decorate contemporary interior spaces, creating new, vivacious and energetic surfaces, enhancing both walls as well as interior furnishings in a unique and original manner.

The product is within the normative 2004/42/CE regarding VOC emissions, it is non inflammable, friend of humans and the environment.

#### Ideal Uses

Decoration of interior walls and furnishings.

#### Surface preparation

Clean the surface to be decorated, removing any loose or flaking material. Traces of dirt or grease must be removed using suitable products.

As preparation for all the finishes, apply a coat of IL PRIMER by OIKOS, in order to insure perfect adhesion. Wait 6-8 hours until dry.

**Gold/Silver leaf, Gilding and Metallic effects:** perfectly screed the surface using PASTE SCREED FOR WALLS by OIKOS, in order to obtain a smooth, even surface. Wait until dry, then apply a coat of NEOFIX by OIKOS in order to reduce and render homogeneous the absorption of the surface.

**Gold dust effect :** Using a brush, apply a coat of BIAMAX 03 or BIAMAX 07\_white by OIKOS as a base, crossing over the brush strokes. Wait 4 ÷ 6 hours until dry.

For other finishes, follow the indications specified in the application method.

#### Application method

**Gold leaf/Silver leaf** Dilute the product 10% with drinkable water. Using a brush, apply IMPERIUM on small sections of the surface (approximately 50x50 cm) and then immediately dab the product using the SPONGE PAD (Art 116). Wait 5-6 hours until dry and then apply a second coat of the product using the same method. Yield 6-7m<sup>2</sup>/lt

**Gilding:** Dilute the product 10% with drinkable water. Using a brush, apply IMPERIUM on small sections of the surface (approximately 50x50 cm) and then immediately dab the product using the SPONGE GLOVE (Art 115). Wait 5-6 hours until dry then apply a second coat of the product using the same method. Yield 6-7m<sup>2</sup>/lt

**Metallic:** In order to obtain a smooth even finish, spray two coats of IMPERIUM diluted 20% (nozzle 1,3 mm)

**First Coat:** Spray the product onto the surface moving the spray gun from left to right and from right to left, setting the nozzle on the spray gun in a horizontal direction. Following this, spray the surface from top to bottom and then back from bottom to top, setting the nozzle in a vertical position and without waiting between coats. The changing of the orientation of the two spray jets will determine the uniformity of the application of the product.

**Second Coat:** Once dry, after 3 ÷ 4 hours, repeat the application as in the first coat. Yield 6-7m<sup>2</sup>/lt

**Gold dust:** To obtain the "Gold dust" effect, on top of either white BIAMAX 03 or BIAMAX 07, using a brush, apply a coat of IMPERIUM diluted 15% with drinkable water, crossing over the brush strokes. Yield 7-8m<sup>2</sup>/lt

**Oxidised copper:** After having screeded the surface, apply a coat of IL PIGMENTATO (N 768) diluted 50% with drinkable water. Once dry, using an inox steel trowel, apply a coat of NOVALIS MATT ENAMEL (B 275) in vertical bands from top to bottom. Once dry, using the same method, apply a coat of IMPERIUM diluted max 15% with drinkable water. Proceed in 30-40cm wide bands, passing back over them several times so that in certain areas the product is pulled away by the trowel as it dries exposing the base coat. Yield: NOVALIS ENAMEL 7-9m<sup>2</sup>/lt, IMPERIUM 15-20m<sup>2</sup>/lt

**Textured oxidised copper:** Apply IL PRIMER and then proceed to screed the surface using RAFFAELLO DECOR STUCCO (R 30). Once dry, using the same product, create crests of product over the entire surface by putting small amounts of the material on the flat surface of the trowel and then dabbing the surface. Wait a few minutes until the product starts to dry and then gently smooth the surface slightly using the trowel to flatten the tops of the crests. Wait at least 6 hours until completely dry and sand lightly to remove any imperfections. After having removed any dust, using a brush apply a coat of NOVALIS MATT ENAMEL (B 275) diluted 10% with water and then distributing the product using the SYNTHETIC SPONGE (Art. 139) to eliminate the brush strokes. Once dry, apply IMPERIUM (IMP 15) diluted 5% with drinkable water by putting a small amount of product on the SYNTHETIC SPONGE (Art. 139) using a brush and dabbing the areas of the surface in relief. Once dry, apply undiluted IMPERIUM (IMP 60) using a SPANISH BRUSH (Art. 140), with just the tips of the bristles imbued in the product and removing any excess product, brushing the crests very lightly blending as necessary. Yield: RAFFAELLO DECORSTUCCO 1-1,5m<sup>2</sup>/kg, NOVALIS MATT ENAMEL 7-9m<sup>2</sup>/lt, IMPERIUM IMP 15 15-18m<sup>2</sup>/lt, IMP 60 20-30m<sup>2</sup>/lt

**Molten bronze:** After having screeded the wall, apply a coat of BLANKOR (EX 3330) diluted 50% with drinkable water. Once dry, apply a coat of undiluted MARMORINO NATURALE FINE (CT 1400), applying the product in patches leaving some areas with more product and other areas with less material. After 5-10 min. proceed to smooth the surface. This process needs to be repeated as the product starts to dry in such a way as to have areas of the surface that are smooth and others that are uneven. Once dry, lightly moisten the surface using a spray bottle (like used to water plants) and apply a coat of IMPERIUM (IMP 195) diluted 60-70% with water, by putting a small quantity of product on the SYNTHETIC SPONGE (Art. 139) applying in circular movements to create a "cloudy effect" without leaving particular marks on the surface. Once dry, using the same technique, apply a coat of IMPERIUM (IMP 264) diluted 40% with drinkable water. At this point it is important to work in patches, leaving certain parts of the surface uncovered. Once dry, apply using the same technique, two coats, one after the other, of NOVALIS MATT ENAMEL (B 715) diluted 150% with water. Yield: MARMORINO NATURALE FINE 2-3m<sup>2</sup>/kg, IMPERIUM IMP 195/IMP 264 40-50m<sup>2</sup>/lt, NOVALIS MATT ENAMEL 80-100m<sup>2</sup>/lt

**Delabrè:** After having screeded the surface and consolidated it using the sealer NEOFIX, using a ROLLER FOR ENAMELS (Art. A04) apply a coat of undiluted IMPERIUM taking care to distribute the product evenly. Once dry, apply another coat of undiluted IMPERIUM using an Inox steel trowel, avoiding having to repeatedly pass over the same area. In order to obtain as even an effect as possible, apply a second coat using less material than in the first. Yield: IMPERIUM 6-8m<sup>2</sup>/lt

**Spazzolato:** After having screeded the surface and consolidated it using the sealer NEOFIX, apply ULTRASATEN OPACO (B 715) until the surface is completely covered. Once dry, using a SPANISH BRUSH (Art. 140/149) apply IMPERIUM (IMP 264) diluted 40% with water, in vertical bands, go back and immediately pass back over the surface using a BRISTLE PAD (Art. 135) emphasizing the vertical lines. Once

dry, apply a second coat in the same way. The effect can be created with a variety of combinations between the base colour and the colour of the finish. Yield: ULTRASATEN OPACO 8-10m<sup>2</sup>/lt, IMPERIUM 6-7m<sup>2</sup>/lt

**Antique Copper:** After having screeded the surface and consolidated it using the sealer NEOFIX, using a ROLLER FOR ENAMELS (Art. A04), apply a coat of IMPERIUM (IMP 69) diluted 10% with water, taking care to get an even distribution of the product. Once dry, apply undiluted ULTRASATEN OPACO (B 275), using the flat part of the trowel, working in a vertical sense from the bottom of the wall to the top. The effect should not be even and it should be left so that the base colour can be perceived. Using the same technique but with a smaller quantity of product, apply a second colour of ULTRASATEN OPACO (IN 181). Once dry, using an inox steel trowel, apply a very thin coat of undiluted ULTRASATEN OPACO (B 715). The application should be carried out in not too wide, vertical bands (20-30cm). Immediately pass back over the surface with the TOOL FOR COR-DU-ROY EFFECT (Art.133) in order to remove part of the product applied in order to partially expose part of the base colour. Yield: IMPERIUM 12-14m<sup>2</sup>/lt, ULTRASATEN OPACO B 275/IN 181 50-60m<sup>2</sup>/lt, B 715 18-20m<sup>2</sup>/lt

**Trame:** After having screeded the surface and consolidated it using the sealer NEOFIX, apply Ultrasaten Opaco as a base coat. Apply a coat of undiluted ENCANTO in a horizontal sense using a brush and then work over the product in the same direction using the tool for Cor-du-Roy effect (art. 133). Once dry, repeat the process in a vertical sense. On this surface it is then possible, using a Roller for Enamels (Art. A04), to apply Imperium by Oikos, diluted 25%, taking care to make the last roll with the roller all in the same direction so as to eliminate any imperfections and to obtain a metallic finish with high technical performance. To obtain the Stellar effect, add Decorglitter to Imperium. Yield: ENCANTO 3-3,5 m<sup>2</sup>/lt, Imperium 12-14 m<sup>2</sup>/lt

**Fil Posè:** On a surface that has been sufficiently smoothed and consolidated with IL PRIMER, using a medium haired roller, apply undiluted KREOS, in a uniform and even manner. Before drying, proceed to work over the product with the TOOL FOR COR-DU-ROY EFFECT (art.133). To create the finish, drag the tool over the surface for small distances in straight, parallel lines. Use the tool to pass back over the applied product on the joints in order to create an even effect. Once dry, using a brush, apply IMPERIUM diluted 10% with water and immediately blend using the TOOL FOR COR-DU-ROY EFFECT (art.133). Once dry, apply a second coat of Imperium in the same manner. Yield: KREOS 3-4m<sup>2</sup>/lt, IMPERIUM 10-12m<sup>2</sup>/lt

## Finishes and Protective Coatings

To obtain a sparkling finish, it is possible to mix the additive DECORGLITTER by Oikos into the product. (the best decorative effect is obtained in the Metallic and Gold dust finishes)

## Technical characteristics: application

Dilution:	Dilute with drinkable water according to the effect to be realised
Yield:	The yield varies according to the effect desired
Application tools	Vary according to the effect to be realised
Sealer:	NEOFIX
Base coats:	PASTE SCREED FOR WALLS, BIAMAX 03 or BIAMAX 07_by OIKOS
Application temperature:	+5 °C ♦ + 36°C (with relative humidity not exceeding 80%)
Drying time touch dry:	2 ♦ 4 h (temperature = 20°C with relative humidity at 75%)
Drying time until washable:	7 days (temperature = 20°C with relative humidity at 75%)
Total drying time:	36 h (temperature = 20°C with relative humidity at 75%)
Time until possible to paint over:	6 h (temperature = 20°C with relative humidity at 75%)
Tools cleaning:	Water
Warnings:	The product tends sediment: mix thoroughly before use.

**Technical characteristics: the product**

Composition:	Special acrylic resins in water dispersion, organic and inorganic pigments, metallic pigments and additives to ease application and the formation of the surface film.
Specific weight:	1,1 +/- 3%
Level of gloss:	45 ÷ 70 gloss (reflexometer Ericksen 500/60°)
PH:	8 ÷ 9
Viscosity:	3.000 ÷ 6.000 CPS +/- 5% Brookfield (RVT 20 revs/min. at 25°C)
Storage temperature:	+2°C ÷ +36°C. Keep from freezing
Reaction to fire:	Negative if applied onto a non inflammable base; water based material with a dry thickness of less than 0,600 mm.
Resistance to washing and abrasion on wet:	Class 1; UNI EN ISO 11998:2003 (Class 1: Max – Class 5: min)
Test of adhesion to base coat (grid incision):	Class 0; UNI EN ISO 2409:1996 (Class 0: Max – Class 5: min)
Emission limits of Volatile Organic Compound (VOC), according to the directive 2004/42/CE:	
Classification:	A/b; VOC: 50 g/l (max); Limit Phase I (from 1.1.2007): 150 g/l, Limit Phase II (from 1.1.2010): 100 g/l
Colours:	Shades of the colour chart
Packaging:	Litres 1 – 2,5 – 4

**Safety Information**

The product does not contain any heavy metals such as Chrome or Lead nor does it contain any toxic solvents, aromas and chlorate. There is no risk of any dangerous polymerisation. The product is considered to be a non-dangerous substance if used in the technically correct manner. Normal cautionary measures for the handling of water based paints are advised. No special arrangements are required for the storage, movement and transportation of the product; the containers, residue, eventual spilt material should be cleaned up using absorbent inert material such as sand, soil etc... and then disposed of in accordance with the regional and national regulations in force at that time. Transportation must be carried out in accordance with international agreements. Safety data sheet available on request.

**Specifications**

Clean the surfaces to be painted, removing any loose or flaking material. Traces of dirt or grease should be removed using specific products. Prepare the surfaces in order to realise the chosen finish. Apply a product with a metallic finish such as IMPERIUM by OIKOS, according to the final effect to be achieved. Create the chosen finish using the recommended tools for the selected effect. All must be carried out in accordance with the norms of application, at a cost of ..... m<sup>2</sup> inclusive of materials and labour.

**Note**

The company Oikos S.r.l guarantees that the information contained in this technical data sheet are given to the best of its own technical and scientific knowledge. Notwithstanding that indicated above, Oikos takes no responsibility for the results obtained through the use of this product in as much as it is not possible for Oikos to check or control the application method used. For this reason, we recommend that you check carefully that each product chosen, is suitable for each individual use to which it is put.