

# TOUCH-UP KIT

1.XXX.YYYY-ZZZ

Touch-up kit for RAL powder coated surfaces



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ECHNICAL TOOLS -aboratory Tests and Technical Documentation

MRK-012-0111R5

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## 1. TECHNICAL DATA

#### PRODUCT FEATURES

The *Touch-up kit* is a small dose (12 grams) of glossy nitro paint that matches the colour of a specific GiColor product purchased by the customer. It has been designed to repair surfaces that have been scratched or damaged.

The enamel has a good hiding power and works on both shallow scratches and serious notches deep enough to uncover the metal substrate.

#### • TECHNICAL SPECIFICATIONS

Chemical nature	Nitro paint
Finish	Smooth glossy
Compatibility	Polyester powder-coated surfaces
Usability	Smooth glossy, smooth matt and textured finishes



Figure 1-2: Application of the *touch-up* paint (before and after)

N.B. – The Touch-up kit cannot be used on metallic or fluorescent powder coatings

## 2. PRODUCT INFORMATION

## • <u>CONTENTS</u>

- 2 small bottles, 12 g of varnish each
- 2 small brushes for the application

Product code: 1.XXX.YYYY-ZZZ

#### • AVAILABILITY AND SHELF LIFE

Available colours: all GiColor codes Shelf life: 14 months Once opened it can be stored for 15 days



Figure 3 – 4: Box and contents

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## 3. <u>USE</u>

#### • APPLICATION

One thin coat of paint is applied on the damaged area and left drying at room temperature. This process must be done quickly to get a homogeneous result.

Test the paint over a hidden part of the object before applying it on the damaged area.

- Flash-off time: 30 minutes
- Drying time: 60 minutes



#### Figure 5: Aluminium panel damaged to uncover the metal substrate

#### Figure 6: Aluminium panel restored with the touch-up kit



One layer of touch-up paint perfectly covers every damage

#### • EXAMPLE

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## 4. ADHESION TEST

#### <u>CROSS-CUT TEST</u>

The touch-up paint adheres well to the surface. A cross-cut test (ISO 2409) has been carried out to determine the mechanical resistance.



Figure 7: Aluminium panel before application of Touch-up paint.



The damaged area has been completely restored with the *touch-up* paint. A cross-cut test has been carried out on the varnish layer: no detachment or loss of adhesion has been observed.

Figure 8: Aluminum panel after application of Touch-up paint and cross-cut test.

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## 5. ADHESION TEST ON SILICON

The adhesion of the Touch-up paint has been tested on different types of commercial silicone sealant. The test was carried out on aluminium plates using the following silicone sealants:

- Neutral MEKO oxime-free silicone sealant (Pattex SL620 Solyplast FUSION XLT);
- One-component **paintable** acrylic sealant (Saratoga Acrylic Sealant);
- High modulus, hybrid polymer-based paintable adhesive sealant (Fisher KD Ultra 60);
- One-component, neutral cross-linking, **paintable** silicone sealant (Ottoseal S113).

Here below the codes of the Touch-up Kit used:

- RAL 5010;
- RAL 9010;
- RAL 6021.
- 1. Two strips of each type of silicone have been applied on an aluminium plate and left to dry.







Figure 9 – 10 - 11: Sample preparation

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2. The silicone sealant has been completely covered with the Touch-up paint.



Figure 12-13: Touch-up paint application on silicone sample

3. The adhesion test has been carried out on the silicone sealant covered with the Touch-up kit.



Figure 14 – 15: Results of the Touch-Up paint adhesion test on silicone.

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Figure 16 – 17: Results of the Touch-up paint adhesion test on silicone.



Figure 18 – 19: Results of the Touch-up paint adhesion test on silicone.

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Figure 20-21: Touch-Up paint detachment on non-paintable silicone



Figure 22: Touch-Up paint detachment on non-paintable silicone

## **CONCLUSION**

As the above images show, the paint product of the Touch-up Kit adheres perfectly to **paintable silicone**, while it does not adhere to **non-paintable silicone**, where detachments are clearly visible.

## **GICOLOR SRL**

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