

BEFORE

AFTER



***Smart repair kit for
aluminium alloy wheels.***

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Alkemiarefinishing.com

Smart repair kit for aluminium alloy wheels.

Professional kit for smart repair of aluminium alloy wheels,
An innovative kit composed of specific products and
completed with a special metallic basecoat and clearcoat
finish, suitable for a smart reconstruction of wheels.

Milan. 09 November. 2010

Smart repair for aluminium alloy wheels:

IS ITS POSSIBLE ?

YES BUT WITH SPECIFIC PRODUCTS

WHY ?

New aluminium alloy wheels are not varnished in the same way of a cars body, but are varnished using different products in order to guarantee better performance like: heat and scratch resistance (both consequences of braking and road surfaces).

IN FACT:

The original wheel varnish cicle is composed of:
primering with sol-gel technology or phosphating.
Primer epoxy, special metallic basecoats of different grades and powder
or UV curing with a high resistance clearcoats.

Alkemia suggests:

1 **SPECIAL COMPOSITE PUTTY FOR ALUMINIUM.**

Also suitable for small part reconstruction, **easy drying and sanding, excellent adhesion on aluminium substrates.**

2. **SPECIAL ALUMINIUM BASECOATS IN 5 GRADES**

The kit includes some colors not even available in Tinting mix systems of major paint producers today.

8 - 15 - 23 - 34 - 52 micron grade filled handy spray-cans for a smart repair in a precise choice of basecoat color finish. **Using the 5 special bases it is possible to replicate 95% of metallic effects for aluminium alloy wheels.**

3. **2K HS THERMO CERAMIC CLEARCOAT FINISH.**

It guarantees heat and scratch, and dirt resistant, and quick drying. Thanks to the additive SMART BLEND packed in a 400 ml professional spray-can, it's easier to do a smart repair of alloy wheels.

ADVANTAGES:

Precise, Practical, Economical

- SECURE REPAIR** with specific products made for aluminium alloy.
- INVISIBLE AND HIGH QUALITY RESTORE:** Thanks to its complete assortment of special metallic basecoats the kit guarantees a perfect restore of the metallic effect in 95% of alloy wheels.
- THE KIT CUTS OPERATING TIME IN HALF:** Thanks to its packaging in professional spray cans and thanks to the innovative masking system “ MASKING CARDS SYSTEM “
- MULTI-PURPOSE:** Created for a smart repair, it allows you to re-varnish the whole wheel. It can be integrated with other finishing varnishes as well for example: dark or silver chrome effect, Subaru Gold, matt clear etc. separately purchasable.
Due to the advantages of 2K THERMO CERAMIC CLEARCOAT professional spray, it's possible to use with or without: oven cure painting rooms, air compressors, spray guns etc.
- IT IS ECONOMICAL:** This complete and professional Kit allows the repair of about 80 alloy wheels. (smart repair mode) and allows the perfect repairing of the wheel without water basecoat tinting mix systems which are more expansive and unsuitable for aluminium alloy.
In fact without an adequate insulation they cause oxidation of the aluminium substrate which results peeling of the paint.

THE BODY SHOPS OF TODAY...

Use standard polyester putties for metal substrates.

With low strength, low heat resistance and low adherence on aluminium substrates.

Varnish with unprofessional spray or with water based tinting mix systems (very expensive).

They don't have color choices and they requires long time for evaporation of the basecoat, especially onto the angular cavity. To complete the repair a standard 2k clearcoats which doesn,t have high resistance necessary for this specific type of application.

Within the first year peeling usually occurs.

Smart repair kit for aluminium alloy wheels.

HOW TO USE IT:

- 1- Cleaning and filling with special putty: (5 min).**
- 2- Sanding and masking: (4 – 6 min).**
- 3- Choice and application of metallic special base coat (2 – 3 min).**
- 4- Application of HS thermo ceramic clearcoat, blending and drying with IRT mode: (11 – 12 min. including drying).**

SCORE TIME: 22-26 minutes.*

* Score time for smart repair mode measured by CESTAR GENERALI INSURANCE GROUP RCAR member

Smart repair kit for aluminium alloy wheels.

1- Clean wheel surface, sand and blow with compressed air.



2 – Putty and reconstruct the alloy wheel if necessary, then wait a few minutes for it to dry. After sanding with P120 P240 P 400, mask with the special cards included in the kit.



3 – Choose the appropriate basecoat included in the smart kit and spray from 15-20 cm. Wait for evaporation (3-4 min) then varnish with HS THERMO CERAMIC CLEARCOAT.

It's possible also to use SMART BLEND additive available in spray. (sold separately)

Wait for 3-5 min. and remove masking. Complete with drying : 10 min IRT mode.



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Example of the handy and quick masking system **“MASKING CARDS SYSTEM”** included in the kit and application of the special basecoat with hvlp nozzle 1,00 mm. Also used to apply the **2K HS THERMO CERAMIC CLEARCOAT**.



Some repairs made with:

Smart repair kit for aluminium alloy wheels.



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CONCLUSION:

The kit is an innovative modern kit for body shops, car shops, tire dealers and used car markets. In fact, thanks to the solution of the smart repair spray can, the kit can be used without professional paint equipment, and it guarantees a result similar to the original.

For this reason the kit is useful for Insurance Companies as well, because today a scratch on the wheel requires replacement of the whole wheel (variable costs between 300 and 2000 Euro)

CESTAR (GENERALI INSURANCE GROUP R CAR MEMBER) in the second half of 2010 in Italy, conducted a reasearch to identify the limit of structural damage requiring replacement of the whole wheel. This was done to determine the advantages of repairing vs replacing the whole wheel, also to assess how repairs could be accomplished.

ALKEMIA LTD.

Presents the new ideal kit:

Profitable for insurances companies,

Profitable for repairers because it is very precise, practical and economical.

Smart repair Kit for aluminium alloy wheels.

Almost all alloy wheels are repairable and restored like the original. In the future **NEW COLOR TREND SERIES will be introduced** allowing for an ever expandable market in the alloy wheel repair industry.



Smart repair kit for aluminium alloy wheels.

Presentation of **NEW COLOR TRENDS** to launch after the main kit.

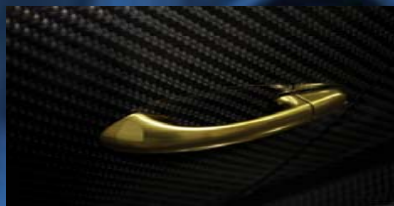


June 2011: 1° Mini Kit

Matt Gold Subaru and titanium:

Base spray 2 x ml 400 +

HS THERMO CERAMIC MATT CLEARCOAT +
HARDENER FOR CLEARCOAT ml 500



December 2011: 2° Mini Kit

Dark and silver Chrome effect :

Black glossy primer 1K + dark or
silver chromo finishing +
1k clear coat special finishing.

(All in 400ML spray-can).

**NOTE: IT IS POSSIBLE TO CHANGE COLOR TRENDS IN YOUR ORDER OR TO ORDER CUSTOM COLORS, FOR EXAMPLE:
AUDI SILVER, CITROEN GREY, TITAN FIAT ALFAROME, PHANTOM LAMBORGHINI, GLOSSY BLACK PORSCHE ETC.**