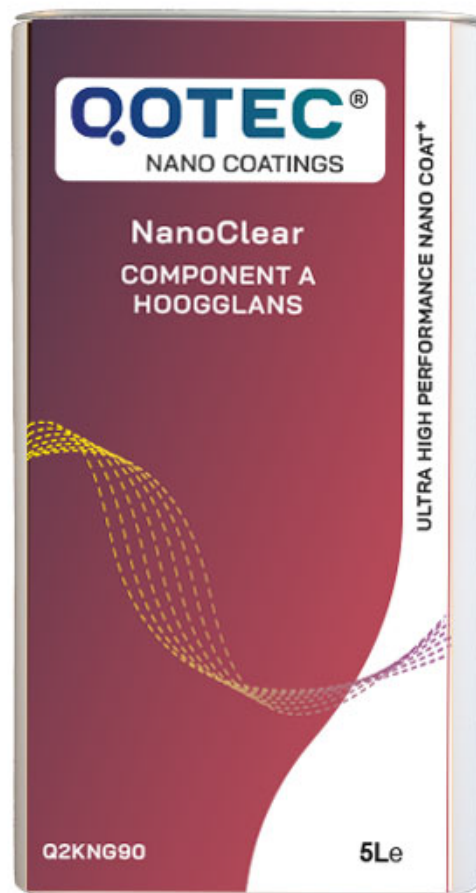


Q.OTEC[®]

NANO COATINGS

TECHNICAL DATA SHEET

Qotec NanoClear+
2 components



July 2020

Qotec NanoClear+

Product	Description
NanoClear+ Component A NanoClear+ Component B	NanoClear+ Component A NanoClear+ Component B
Ratio A+B (2:1)	

Product

Qotec NanoClear+ is a patented ultra-resistant paint system. Due to intensive research and development with global industrial customer demands and smart maintenance as starting point, Qotec NanoClear+ has been designed to withstand scratches, light abrasive damage, impact damage, ink, paint, graffiti, chemicals, detergents, UV radiation, cement, mortar, plaster and weather influences such as rain, ice and sun.

The product can be made to request from High Gloss to full Matt.

Contrary to most existing products where hydrophobicity is dependent on modification of the coating surface and the effect is perishable and short living, Qotec managed to crosslink the special additives in the solid of the coating, resulting in a durable hydrophobicity and an ultra-high resistivity to scratches and light abrasive damage.

The NanoClear+ coating has been designed for manual, air mix or airless application. It can be applied on existing factory coatings, aluminium base coat, bare metals*, and as a final clear coat layer on powder coating, standard repaint, epoxy granulates, granite and all kinds of marble

Please read the instructions carefully to ensure the best results.

*For bare metals consult us to supply you with the most recent formulation.

General process for Qotec NanoClear+

1. General Appliance

1. The paint system should be completely intact. If not, remedial painting must be done first.
2. Insure the object is thoroughly clean before starting any work.
3. The complete object can be sanded .
4. Clean with degreaser.
5. After all the customary preparations are finished and parts not to be painted are masked, the cabin temperature should be at 21°C.
6. All dust should be removed with a tack rag. Be careful not to leave oil or moist remains behind
7. Mix both components and start painting without delay. Two layers can be painted consecutively. The first layer as a light/medium flowing coat, followed by a full coat. No flash-off time needed.

The mixed product, components A+B, is at user viscosity, 21 seconds DIN Cup 4.

8. Raise the temperature of the spray booth to 60°C to cure the coating for 45 minutes object temperature.

2. Repainting used machine in customer colour

When the object is being coated with the new customer colour Qotec NanoClear+ can be applied as last layer.

1. The colour coat needs to be touch dry.
2. Only one full coat needs to be applied.
3. Raise the temperature of the spray booth to 60°C to cure the coating for 45 minutes object temperature.

3. Repainting used machine

Clean the parts in question. Repair damaged coating prior to Qotec NanoClear+ application as described in section 1.

Finish off with 2 coats of NanoClear+ as described in section 1.

4. Repairs and spot repair

The repair with the customer colour can take place as usual. Application of Qotec NanoClear+ is a 'fading-out' process. On and round the repair spot sand with P500 - P800, and then with P1000 or Microsponge, for the fading out. Use the regular fade out thinner to dissolve any over spray edge.

5. Recoatability

Qotec NanoClear+ is always recoatable assuming the pre-treatment as in spot repair is followed.

6. Decals

Before applying decals on Qotec Scratch Resistant, vigorously sand with P1000. **Preferably decals need to be applied before applying Qotec NanoClear+.**

7. Other points to note

When finished with painting it is recommended to immediately clean the spray equipment!

Mixing ratio's (by volume)	Qotec NanoClear+ Component A	2 part
	Qotec NanoClear+ Component B	1 part
	Ratio A+B (2:1)	

Pot Life at 20 °C



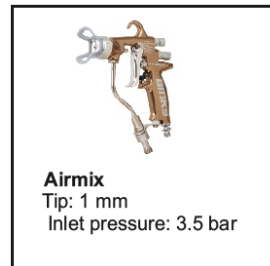
1 hour when Component A and B are mixed



In most cases no thinner is needed,

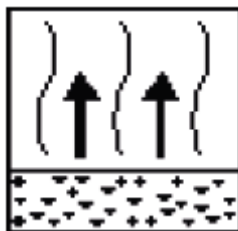
**Mixed product is factory adjusted to 21 sec. DIN
Cup 4 at 20°C**

As with all ultra-high solids products, cold ready for use paint temperatures can lead to difficult application and overspray absorption. It is strongly recommended that the product is applied at a temperature higher than 15°C



Conventional 2 coats process

Apply 2 single coats to give 50-75 microns.
Allow 5-7 mins flash-off between coats.



Bake at metal temp. of 60°C: 45 minutes

Handling after cooling.
NanoClear+ after approx. 2 weeks.

The hydrophobic and other special properties will give a lasting effect after approx. 4 to 6 weeks at 21°C.

Please take care in this period not to exert any heavy force on the paint system.

A minimum purchasing set consists of 5 liter component A + 2.5 liter component B (making a set of 7.5 liter coating)

Fully reacted Qotec NanoClear+ is physically and chemically inert. Therefore food contact safe. **Test rapport available on request.**

Shelf life if unopened: 24 months.

Weight Mixing

GUIDELINES FOR WEIGHT MIXING

Where a specific volume of clearcoat mix is required, this may be best achieved by weight mixing, using the guidelines below. The weights are cumulative - please do NOT tare the balance between additions.

Weight Mix Guide for Qotec Scratch Resistant

Volume of RFU paint required (Litres)	Weight Component A	Weight Component B	Weight
0.10 L	64 g	97 g	100 g
0.20 L	128 g	195 g	200 g
0.25 L	161 g	245 g	255g
0.33 L	214 g	325 g	334 g
0.50 L	321 g	488 g	501 g
0.75 L	482 g	733 g	753 g
1.0 L	642 g	976 g	1002 g
1.5 L	964 g	1466 g	1506 g
2.0 L	1285 g	1954 g	2007 g
2.5 L	1606 g	2442 g	2508 g

VOC INFORMATION

The EU limit value for this product (product category: IIB.d) in ready to use form is max. 420g/litre of VOC. The VOC content of this product in ready to use form is max. 420g/litre. Depending on the chosen method of use, the actual ready to use VOC of this product may be lower than that specified by the EU Directive code.

These products are for professional use only, and are not to be used for purposes other than those specified. The information on this TDS is based on present scientific and technical knowledge, and it is the responsibility of the user to take all necessary steps in order to ensure the suitability of the product for the intended purpose.

For Health and Safety information please refer to Material Safety Data Sheet MSDS Qotec NanoClear+ available at: **www.qotec.nl**.