



## Technical Data Sheet

Date of issue	Revision Date	Version
30/01/06	19/11/2012	1.6
Product Code	Product Name	
<b>DC_-</b>	<b>Diamond Clear™</b>	

**Diamond Clear™** is a 2K "HIGH SOLID" clear that is so reflective, deep and glossy we had to call it Diamond Clear™. Tested to meet and exceed custom and show car expectations for showroom gloss, shine and clarity. Diamond Clear™ is UV and chemical resistant, has excellent blend-in promotion and great leveling characteristics to ensure a smooth as glass finish.

Diamond Clear™ *Always check that you have the latest TDS*



### SURFACE PREP

Surface must be chemically clean & dry.



### MIXING RATIO

2: Parts Diamond Clear  
1: Part FX Hardener  
10~20% FX Reducer



### NUMBER OF COATS

2 medium wet coats



### CONVENTIONAL - GUN SET UP

1.2~1.4 Fluid tip  
15~25 cm Spray distance  
20~45 psi Air pressure  
15~25 cm Fan size



### HVLP - GUN SET UP

1.2~1.4 Fluid tip  
10~15 cm Spray distance  
10~15psi at the cap  
15~25 cm Fan size



### FLASH TIME @ 25°C

10~15 min between coats  
15 min before baking



### CURE TIMES @ 25°C

Dust Free: 30 min\*  
Baking: 40~50min\* @ 60°C  
\*Medium Hardener



### THEORETICAL COVERAGE

10~12 m<sup>2</sup> per litre



### POT LIFE

1.5 Hour  
\*Medium Hardener



### SPRAYING VISCOSITY

Ford 4 Cup: 16~18 sec



### SAFETY

Always wear appropriate safety clothing, gloves, & breathing apparatus



### MSDS

Observe all safety precautions in relation to this products Material Safety Data Sheet



### CLEAN UP

Clean equipment with Gun Wash, Reducer or Thinners

### STORAGE

1 Year in cool, dry conditions

### QUICK APPLICATION GUIDE:

1. Prepare your surface.
2. 2 medium wet coats or until desired coverage has been achieved.
3. Allow to flash off properly between coats.
4. Bake 40~50min\* @ 60°C.
5. Lightly polish if required.

### PREPARATION



If applying over an existing 2K clear coat, sand using P500-800 wet or dry. Clean with DNA® Prep Clean 'X' & wipe dry.

### DETAILED APPLICATION GUIDE:

#### CLEANING



Thoroughly clean the surface using a wax and grease remover such as DNA® Wax & Grease Remover.

#### MIXING



Mix Ratio: 2:1 + 10 to 20% reducer  
2: Parts Diamond Clear  
1: Part FX Hardener\*  
10~20% FX Reducer  
\*Hardener should be added first and mixed thoroughly before adding the Reducer.

#### SUBSTRATE



For use over DNA® BaZecoats™, Candy Colors™ & other DNA® Special FX products as well as previously base coated substrates that are properly prepared, with the exception of thermoplastic acrylic lacquer and air dry enamel finishes. Surface must be chemically clean and dry.

#### SPRAYING



Strain mixed Diamond Clear into paint gun.  
Allowing for flash time between each coat apply 2 medium wet coats or until desired coverage has been achieved. Spray with a 50% spray overlap.  
*Flash time varies with temperature, FX Hardener and FX Reducer being used.*

**FLASH OFF @ 25°C**

Time between coats  
 10~15 min (Fast Reducer)  
 10~15 min (Medium Reducer)  
 15~20 min (Slow Reducer)  
 20~30 min (High Flow Reducer)

**POT LIFE @ 25°C**

1 hr (Fast Hardener)  
 1.5 hr (Medium Hardener)  
 2 hr (Slow Hardener)

**CURING TIMES****Dust Free @ 25°C**

25 min (Fast Hardener)  
 30 min (Medium Hardener)  
 60 min (Slow Hardener)

**Baking @ 60°C**

20~30 min (Fast Hardener)  
 40~50 min (Medium Hardener)  
 60 min (Slow Hardener)

**Air Dry Touch @ 25°C**

2 hr (Fast Hardener)

**REDUCERS & HARDENERS GUIDE**

These all have special properties that allow the most versatility in the hands of the professional painter in order to achieve the best results under varying conditions. For further details, refer to the DNA® Reducer and DNA® Hardener TDSs, Technical Data Sheets.

**'FX' Reducer™ Fast, RFXF****'FX' Hardener™ Fast, HFXF**

Application temperature range (10 to 15°C)

Used where you wish to speed up the drying time. Ideal for spot repairs or spraying in cooler temperatures.

**'FX' Reducer™ Medium, RFXM****'FX' Hardener™ Medium, HFXM**

Application temperature range (15 to 30°C)

Used where a normal drying time is required. Ideal for general repairs, clear coating and spraying in normal temperatures.

**'FX' Reducer™ Slow, RFXS,****'FX' Hardener™ Slow, HFXS**

Application temperature range (25 to >30°C)

Used where you wish to slow down the drying time. Ideal for resprays or spraying in hotter temperatures.

**'FX' Reducer™ High Flow, RFXHF**

Application temperature range (25 to >35°C)

Used where the slowest drying times are required or when spraying in the hottest temperatures.

High Flow promotes premium leveling that is often required when flow coating\*\* to get a glass like finish off the gun. It is especially designed to provide the perfect surface on which to apply DNA® products such as Virtual Chrome™, HolaChrome™, Black Chrome™, HolaSpeX™, HolaGrafiX™ or where the smoothest finish is required.

**\*\* Flow Coating:** Do not apply flow coat unless existing clear coat has been baked and left to out-gas for a minimum of 48 hours. Additional time will be required if cooler temperatures are experienced during the out-gassing period.

For further information refer to the DNA® Training Manual, or contact your DNA® Distributor for Technical Support.

**Note:** Custom painting can be difficult. All products should be fully tested prior to commencing any job to determine suitability, final finish and overall appearance. All information and data provided by DNA® is given in good faith and intended to be a general guide only. DNA® shall not accept liability as a result of any failure or lack of expertise on the part of the applicator, condition of substrates, lack of, or incorrect preparation, use of incompatible materials, equipment failure or use of incorrect equipment or any other reason beyond the control of DNA® and further offers no warranties of whatever nature express or implied as to merchantability or fitness for a particular use or purpose and shall not accept liability for any specific or consequential damage as a result of using these products unless otherwise agreed to in writing. Should a product be defective, DNA® shall replace the defective product, or, at its sole discretion refund the purchase price.

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