

# Application Information

## DiamondFinish Clear



To achieve optimum results, please take the time to carefully read and understand this leaflet. These directions are general guidelines and do not cover every application or situation. If you have any remaining doubts or concerns, please call our support line on 1800 80 90 36 for assistance.

**Always wear protective gloves and safety glasses.**

**Always work in a well ventilated area or wear an organic vapour respirator.**



### Product Description

DiamondFinish Clear is a ultra-high performance clear coat with very high solids (over 60%) and low VOCs. It is a single-component, moisture-curing clear coat that once cured is incredibly tough and hard. This water-clear, 100% wet-gloss clear coat remains permanently flexible and is able to perform in the toughest environments including Australia's highest UV applications without yellowing or cracking.

DiamondFinish Clear has excellent self-levelling characteristics and can be applied by brush, roller or conventional spray gun easily and unlike normal 2 pack coatings no hardener is needed.

DiamondFinish Clear will cure without heat or UV lights in temperatures from 6°C to 30°C.

### Surface Preparation

#### **For clear coating over base coat;**

Apply base coat as per manufacturer's directions and allow to dry completely, normally about an hour (for acrylic coatings, allow sufficient time for all solvents to flash off).

#### **For clear coating over solid colour or fully cured coatings;**

Clean surface with KBS SolvoKlean or KBS AquaKlean (diluted 10 parts hot water to 1 part AquaKlean). Scuff with 600-1200 grit sandpaper and repeat cleaning process. Rinse & allow to thoroughly dry.

#### **For clear coating over metals;**

Metals should be freshly polished or sanded to the finish required. Clean thoroughly with KBS SolvoKlean or KBS AquaKlean:

For ferrous metals, clean with KBS AquaKlean at a dilution rate of 10 parts hot water to 1 part AquaKlean (10% strength) with the use of a soft non-abrasive cleaning pad. Rinse the solution immediately and ensure that it is not allowed to sit on the surface. Dry the surface in a way as to minimise water stains.

For non-ferrous metals (aluminum, copper, brass, etc.), clean with KBS AquaKlean at a dilution rate of 25 parts hot water to 1 part AquaKlean (4% strength) with the use of a very soft non-abrasive cleaning pad. Rinse the solution immediately and ensure that it is not allowed to sit on the surface. Dry the surface in a way as to minimise water stains.

For all bare metal applications, always use **KBS Adhesion Promoter** to maximise adhesion of the DiamondFinish Clear to the substrate metal – see separate instruction sheet. Always prepare a test piece in case of any doubt. A minimum of 4 coats (50µm each) should be applied for ferrous or external bare metal applications.

Do not use thinners, wax and grease remover or other solvent based cleaning products as these may leave a residue impairing adhesion.

### **For clear coating wood.**

Wood surfaces should smooth and dry with the wood having a low moisture content. Any failed coatings should be removed and the surface sanded smooth and dust removed. The initial coat of DiamondFinish Clear should be thinned by 30-50% using KBS #1 Thinners. Apply a single covering coat to seal the wood. Allow to cure 24 hours. After the initial coat, the wood will generally need to be sanded smooth again as DiamondFinish Clear will tend to raise the wood grain with the first coat. Sand the surface smooth with fine grade of sand paper (280-320 grit). Apply at least an additional full coat for general applications and a minimum of 3 coats for marine or industrial users.

### **Clear Coating Fiberglass:**

Clean the surface with KBS AquaKlean diluted 10 parts hot water to 1 part AquaKlean. Scuff with 600-1200 grit sandpaper and repeat cleaning process. Rinse & allow to thoroughly dry.

## **Preparing for application**

ALWAYS USE PROTECTIVE GLOVES AND EYEWEAR WHEN USING DIAMONDFINISH. Ideal application temperatures are 15-25°C. Use only in moderate to dry atmospheric conditions i.e. 65% humidity and lower.

After stirring, dispense a working amount of DiamondFinish Clear into a separate container (steel or glass is best) and seal original can immediately. Do not paint out of the can. Unused paint should not be returned to the can as it will shorten its shelf life. Keep can lip free of paint by using a scoop or KBS Paint Spout. Use plastic wrap between the lid and the top of the can to stop metal to metal contact as DiamondFinish Clear can permanently seal the lid. If there is any trouble resealing the can lid tightly, transfer and store DiamondFinish in a proportionally sized, air tight, clean glass jar. Always store in a cool dry place.

## **Applying DiamondFinish Clear**

Always work in a well ventilated area. Apply DiamondFinish Clear to clean and dry prepared surfaces using a bristle brush, foam brush, roller, or spray equipment. DiamondFinish has superior self-levelling characteristics and brush marks will flow out. When brushing apply thin covering coats.

Thinning of DiamondFinish is not generally required if brushing. For spraying 10%-15% is normally adequate but DiamondFinish can be thinned up to 30%. Use KBS #1 Thinner ONLY. If painting in conditions of high temperature and humidity thin DiamondFinish more than normal to avoid gassing.

IF SPRAYING, ALWAYS WEAR AN AIR SUPPLIED RESPIRATOR AND EYE PROTECTION: NIOSH/MSHA approved organic vapour particulate respirator. Spray pressure of 35-45 psi, 250-330kpa for siphon/pot guns and 25-35psi, 170-250kpa for gravity/top container guns. Remember to clean your spray gun immediately after using DiamondFinish.

Always apply a MINIMUM of 2 covering coats, first coat **thin** covering followed by moderate to full coat (50µm each approximately) for general applications. For marine, bare metal or industrial applications, apply a MINIMUM of 3 **thin** covering coats (50µm each).

Re-coating can be done once the first or consecutive coat is dry-to-touch and does not leave a fingerprint.

FOR BEST END RESULTS, always apply coats consecutively within 6 hours of each coat becoming dry to touch, typically 2-4 hours, depending on temperature and humidity levels.

NOTE: Do not apply DiamondFinish in wet or humid conditions to avoid rapid curing.  
Do not apply DiamondFinish too thick or too quick between coats (always allow previous coat to become touch dry)  
In each of these instances, surface bubbling may result as released carbon dioxide becomes entrapped beneath the top surface layer of paint.

## **Clean up**

Use KBS #1 Thinner or gun wash for immediate clean up including your spray gun. IMPORTANT: Remember DiamondFinish must be cleaned up before it dries. It cannot be removed by any solvent once cured.

## **General painting tips and guides**

Always wear protective gloves to avoid skin contact and temporary staining. If skin contact accidentally occurs, immediately remove with KBS #1 Thinner or lacquer thinner followed by soap and water. If DiamondFinish should stain your skin, only the course of time will remove it.

Do not use UV or bake lights to cure DiamondFinish In spray booths use low air flow and moderate temperatures for curing. DiamondFinish can be cut and polished as a normal clear coat after 24 hours under normal conditions.

DiamondFinish will take 4 days to become hard under normal conditions and will continue to harden over the following weeks.