# Product Information 

## CRYSTAL PEARL™

## Crystal Pearl

PRLX1 PRLX2 PRLX3 PRLX4
PRLX5 PRLX6 PRLX7 PRLX8
PRLX9

## PRODUCTS

Liquid Crystal Base Coat Colour Crystal Pearl Base Coat Colour Deltron Thinners Deltron MS Hardener

VM41XX
PRLX-X
DT810,DT820, DT830, DT840
DH720

## PRODUCT DESCRIPTION

Crystal Pearl and Liquid Crystal are unique selections of clear and colour shifting particles that greatly enhance basecoat colour with a crisp and vivid sparkle effect.

Alternatively users have the flexibility to intermix these unique pigments with existing colour or use them as a multi-layer system to create "one of a kind" colours.

These colours are totally compatible with the PPG Global Refinish System range of products, and can be used in the same manner as the Global Basecoats.


## Application Guide

## Basecoat

## Mixing Ratio


Standard BC

| BC | 1 vol |
| :--- | :--- |
| Thinner | 1 vol |

Activated BC

| Custom Crystal Pearl |
| :--- |
| mixing |


| BC | 7 parts by volume |
| :--- | :--- |
| DH720 | 1 part by volume |
| Thinner | 8 parts by volume |
| D895/BC | 100 grams/parts |
| Crystal Pearl | up to 12 grams/parts |

NOTE: GRS BC (Basecoat) activation will be necessary for multi-layer applications (both the groundcoat and midcoat), high film builds (i.e. more than four coats), commercial vehicles, motorbikes, or wheel painting where a higher impact resistance is necessary. This applies to PPG Custom finishes within the Vibrance collection, such as Liquid Crystal, Crystal Pearls, Harlequin, Radiance II candy, Prizmatique and 3-layer finishes.

## ** RFU mix ratios available on paint manager only

## Choose Thinner according to application temperature and repair area size

(see product manual section 3 general information)

| Up to $18^{\circ} \mathrm{C}$ | Thinner |
| :--- | :--- |
| $18^{\circ} \mathrm{C}-25^{\circ} \mathrm{C}$ | DT810 |
| Over $25^{\circ} \mathrm{C}$ | DT820 |
|  | DT830 |

For exceptional conditions of temperature and humidity ( $>35^{\circ} \mathrm{C}$ or $>70 \%$ ) Extra Slow Thinner D873 may be used in BC.

## Potlife



| Uncatalysed (no hardener) | No limit |
| :--- | :--- |
| Catalysed (with hardener) | 6 hours |

## Spray Viscosity



15 secs DIN4
at $20^{\circ} \mathrm{C}$

## Spraygun Setup



$1.3-1.4 \mathrm{~mm}$

Spray Pressure - HVLP /RP $1.3-1.8$ bar / 20-25 PSI

## Number of Coats


$B C$ groundcoat or 2-3 medium wet coats or until hiding is achieved.

Crystal Pearl midcoat

> 2-4 or until colour is achieved. The correct technique must be used to minimise overlaps and achieve a uniform effect.

Flash Off at $20^{\circ} \mathrm{C}$


Between coats 10 minutes
Before clearcoat 15 minutes

## Drying Times



Tape time standard BC
15 minutes
Tape time Activated BC
30 minutes

## Technical Data

Total Dry Film Build
Minimum $\quad 10 \mu \mathrm{~m}$
Maximum $\quad 25 \mu \mathrm{~m}$
Theoretical Coverage* $\quad 3.5-7 \mathrm{~m}^{2} / \mathrm{L}$ ready-to-spray

* Assuming 100\% transfer efficiency and dry film thickness as indicated

Flash Points

BC Colour,
DT810,DT820, DT830, DT840, D845, D837, D846, DH720

Refer PPG MSDS
Refer PPG MSDS

## Sanding



Grade damp
To remove minor defects in Crystal Pearl BC, de-nib after 20 minutes flash-off using fine sand paper (P800-P1200 or P1000 Abralon damp) followed by more base coat prior to the clearcoat application. Use damp fine sandpaper only and avoid using excessive water when de-nibbing.

> ** Do not wet sand large areas of Crystal Pearl basecoat. Wet sanding can lead to excessive water absorption by the basecoat and can downgrade the mechanical properties of the system particularly in the subsequent topcoats.

## Overcoat/Recoat Time Activated / Unactivated



15 minutes minimum prior to clearcoat application 12 hours maximum prior to clearcoat application After 12 hours Crystal Pearl BC has to be re-applied prior to clearcoat application

## Crystal Pearl Basecoat Blend - out Technique

Blending out Crystal Pearl BC is advisable when Crystal Pearl colours have to be repaired. When added into a conventional Basecoat colour use the techniques outlined below.
Multi-layer system repairs require advanced blending techniques. If necessary contact your local PPG Training Centre for more information.

## Preparing the blend area

Ensure the whole area to be painted has been thoroughly cleaned using D845 or D837 Spirit Wipe. Thoroughly flatten the area using Abralon P1000-2000. Use the Abralon damp applying water with a water sprayer bottle on to the Abralon pad or paint surface, then flat the area to be painted by hand or 3 mm orbital sander. The blend area should have a uniform matt appearance.

Clean panel thoroughly using D837 Spirit Wipe prior to applying paint.
Tip 1: Some OEM clears can be soft and, using various scouring pads can cause a gouging type effect. This will appear as sand scratching, particularly in the back of the blended area. To resolve this, apply 1 uniform medium wet coat of D895 Colour Blender to the area that is to have colour and clear applied to it. This will make the blending process easier and also stop any deep scratches appearing at the back of the blended area, especially in silver and gold metallic.
Tip 2: PPG recommend sealing the whole panel by applying the first coat of clear 50 mm from the adjoining panel followed by a second coat of clear over the entire panel. This process will assist in reducing the darkening of panels.

## Use D851 BC Fade-out Thinner as follows:

- Prepare Crystal Pearl BC colour as specified in this data sheet
- Using light inward strokes, achieve coverage on the repaired area
- Thin 1 part of the ready-for-use Crystal Pearl BC with 1 part DT880 Deltron Fade-out Thinner
- Use this mixture to fade the repair edges spraying from the outside to the inside of the repair area in a fanning motion
- Repeat the last step until the potential colour difference has been lost
- Allow 15 minutes flash-off before clearcoating
- Clearcoat the entire panel in a PPG clearcoat


## NOTES

1. Custom or exotic finishes are excluded from coverage under the Global Paint Performance Guarantee.
2. Standard Mixing - Settling may occur in shipping. Hand stir thoroughly before the addition of thinners.

## EQUIPMENT CLEANING

After use, clean all equipment thoroughly with cleaning solvent or thinner.


## Health and Safety

Please refer to Safety Data Sheets for full Health and Safety details.

- Global Hardeners and activated Global BC and PPG 2K Clearcoats contain isocyanate and therefore particular safety precautions must be taken.
- Goggles must be worn when mixing and using to prevent accidental splashing into the eye. If contact occurs with eyes give prolonged irrigation with water and get medical attention immediately.

- Good ventilation and extraction must be provided in the working environment.
- Wear suitable protective equipment to prevent skin contact with this material.
- When spraying this product the operator (and persons in vicinity) must wear suitable air-fed breathing apparatus.
Do not smoke whilst using this material.

This product is for professional use only.
The information given in this sheet is for guidance only. Any person using the product without first making further inquiries as to the suitability of the product for the intended purpose does so at his own risk and we can accept no liability for the performance of the product or for any loss or damage (other than death or personal injury resulting from our negligence) arising out of such use. The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.
Drying times quoted are average times at $20^{\circ} \mathrm{C} / 68^{\circ} \mathrm{F}$. Film thickness, humidity and shop temperature can all affect drying times.


PPG INDUSTRIES AUSTRALIA PTY LIMITED McNaughton Road Clayton VIC Australia 3168
Tel: 132424
Fax: 1800800819
PPG INDUSTRIES NEW
ZEALAND PTY LIMITED
5 Vestey Drive Mt. Wellington
Auckland New Zealand
Tel: 0800320320
Fax: 0800320322

