

Although painting has been covered to a degree in sheet 4, 'Vehicle Assembly', it is such an important part of the finished item that it deserves far greater coverage than previously given.

Whilst each modeller probably has their own preferences for the paints and methods that they use, I mainly use the Humbrol paints and Phoenix Precision for some specific shades, during this time I have formed my own eleventh commandment – "Thou shalt not use gloss". Since discovering the benefits of Johnson's Klear combined with Humbrol matt finishes, I find no reason to use gloss paints at all, even on the odd car or bus that I might build. This is because by using matt paint and adding sufficient coats of Klear, I can build up whatever gloss finish is required.

I am also not a great advocate of primer, with the exception of using Halford's matt black for the underside of chassis' and wheel arches, and their white primer in isolated other instances.

In certain instances, such as white van bodies or the grille panels on cabs, for example the Ford D series and Bedford KM, Halford's white primer gives by far the best finish. Once again, Klear should be used over the top to achieve the level of gloss required. Masking with Tamiya tape is recommended for the D series and KM, etc., first with a 1mm mask around the edges and then a wider tape to mask the remainder of the cab. Orange and yellow should be applied over white primer and can be sprayed or brushed according to your preference or ability. Further details later.

I never wash any RTI components prior to painting and prior to the advent of RTI, I never washed any other supplier's resin, plastic or white metal parts either, and have never had any paint problems using this method.

As aids to painting, the following items come in very useful:

- A 12-inch vinyl record turntable (ask at the council tip), for spraying. A cardboard carton cut down and fixed to three sides to form a spray booth to prevent over spray. This will enable you to spray items by revolving the turntable in 90-degree sections to ensure all angles covered.
- A mixing palette for achieving correct colour shades. Not the type that artists use – mine is the backing card from a tube of Setfast glue that I have been using for the last eight years!
- Two coffee jars of white spirit; one for primary cleaning of brushes that gets murky very quickly, and a second one for a final brush rinse. Change them regularly.
- Masking tape – one roll 2ins wide as used in body repair shops, and two rolls of Tamiya, one 6mm wide and the other 18mm wide, for fine masking. The Tamiya tape can be cut into 1mm wide strips with a scalpel and straight edge where fine definition is required; this can be moulded around curves and protrusions without any kinks. Wider tapes are used for masking the remainder of the component to prevent over-spray.

Colour mixing

The advantage of colour mixing on to a palette enables you to mix different colours to achieve the exact shade that you require then applied directly to the model so the shade remains on the palette to achieve the same mix on subsequent coats or subsequent models in the same livery.

Apply a coat of Klear after each coat of paint is applied, which being matt should be dry within 10-15 minutes. I have found that some of the latest Humbrol paint doesn't dry as readily as previously, particularly red, number 153. This can be accelerated by use of a hairdryer on low, and in any case, the Klear can be applied when touch dry.

When applying your shade from the palette to the model, it can be advantageous to dip your brush into white spirit prior to a new brush load of paint, as this smoothes the paint when applied to the model. Usually, three coats of the correct shade should be sufficient with Klear in between to achieve a smooth finish without any patches.

For large white areas, use two coats Halfords white primer, finished with 2-3 coats of Klear.

Colour mixing to match liveries

The mix quantities in the table below, is only intended for guidance, and once mixed you may need to tweak with shades to lighten or darken.

Where more than two shades are quoted, add and mix in the third and so on. Mix darker shades first.

I have quoted the numbers for Humbrol matt white and black, but in fact I buy Dulux 750ml matt undercoats that works out umpteen times cheaper than the 14ml Humbrol tinlet.

The liveries below have been updated to cover the RTI waterslide transfer range to October 2014.

Livery (dual colour liveries listed twice):

Added liveries 2010 – 2014 shown in bold type.

Pickford's; Tate & Lyle; Holt Lane; Bowker; Regent Oil; Thomas Allen; BRS Meat Haulage (cab); Silver Roadways; Express Dairy (cab); GL Baker; J.Lyons.

Birds Eye Frozen Foods

British Sugar

Morrisons Supermarkets; Bishop's Move**Jack Richards; Br Rail (post 1966)**

Blue Circle Cement; Wimpey; Lucozade; Sunblest

Rugby Cement; Marston Valley Brick; United Dairies

Hoveringham; National Benzole

Regent Oil (all red); London Brick; BRS Haulage; Shell-Mex (tank); Mother's Pride; Walls Meat; Suttons Wynn's; Hall & Co; **Toby Ales; P&H; Baylis; Brooke Bond**

Shell-Mex (cab).

Davis Brothers; C Bristow.

British Road Services Parcels.

Atlas Express.

TM Faiclogh group (Dawsons; ER Ives; Routh & Stevens).

Castrol Oils; Hatchers.

Smith of Maddiston; Sharps Toffee; Robson's Jacobs Biscuits; Anderson of Newhouse; **BOC.**

Anderson of Newhouse; Esso Petroleum; Schweppes. (A. Button; Fremlins; Watneys wheels etc.

Whitbread.

Fremlins 'Kent's Best' brewers.

British Road Services tipper grey; J.Lyons roofs; **Baylis**

Bowaters.

W&J Riding; Russell of Bathgate; **BFP.**

Heavy Transport/Western Express; Tilcon.**Tilcon.**

Russell of Bathgate ; Beresford; Bretts Quarries.

Rank's Flour; Schweppes; **P&H; Spillers Flour**

Express Dairy; Wall's Ice Cream.

Spillers Flour

Aylesford Paper; Reed Paper; Reed Transport; A. Button. **Union Cartage; Federated; Pointer; Truman's Beer.**

Crow Carrying Co.

Post Office Telephones.

Power Petrol.

Tarmac Roadstone.

Wall's Ice Cream.

Watneys Brewery

C&G Yeoman; A. Button van canopy.

C&G Yeoman brown

Colour

Dark Blue

Royal Blue

Mid Blue

Primrose yellow**Deep Yellow**

Yellow

Orange

Burnt Orange

Insignia Red

Mid Green

Brown

BRS Green

Green

Fairclough Green

Bright Green

Maroon

Scarlet

Mid Brown

Conker Brown

LightGrey

Bright Red

Blue

Light Blue**Maroon**

Grey yellow tint

Deep Cream

Light Cream

Autumn Green

Dark Green

Crow Blue

Burnt Green

Power Green

Tarmac Green

Walls Light Blue

Watneys Green

Tan

Mid Brown

Mix (using a No.5 brush):

(Phoenix Precision paint has P prefix)

2 x 104 blue, 1 x 33 black

2 x 104 blue, 0.5 x 33 black

15 blue, add 34 white until comparison is achieved

2 x white; 0.75 99 yellow**P134 BR Signal Yellow**

24 yellow or EH 25 Rover AA yellow spray

82 orange

P134 BR Signal Yellow, touch of 153 Red

153 red

101 green

2x 153red, 1x101green, touch of black

2 x 131 green, 1 x 99 yellow, add 33 black

2 x 101 green, 0.5 x 33 black

2 x 101 green, 1 x 25 blue, 0.5 x 2 green gloss

131 Mid Green (satin)

2 x 143 red, 0.5 x 25 blue

60 red

2 x 133 brown, 0.5 x 33 black

1 x 9 tan (gloss), 1 x 113 rust, 0.5 33 bla

64 grey

2 x 60 red, add a smear of 99 yellow

25 blue

89 Middle Blue**P30 LMS Crimson Lake**

2 x 64 grey, 0.25 99 yellow

2 x 34 white, 0.5 x 99 yellow

4 x 34 white, 0.5 x 99 yellow

1 x 101 Green; 1 x 99 Yellow 0.25 33 Black

3 x 131 green, 0.5 x 33 black

2 x 25 blue, 1 x 101 green

2 x 101 green, 0.5 x 33 black, 0.5 x 99 yellow

2 x 131 green, 0.25 x 33 black

1 x 99 yellow, 1 x 33 black, 1 x 2 green gloss
1 x 9 buff gloss.

2 x 89 blue, brush tip of 99 yellow & 34 white

117 green

148 Randone tan

1 x 10 brown gloss, 1 x 113 rust