



SOLARLAC

A Superb Paint for Models

SOLARFILM and SOLARTEX are excellent materials for covering model aircraft but there are small areas of most models where the iron-ons are difficult to use - usually small parts or sections with lots of double curvature e.g. cowls, wheel pants, fairings, struts etc. In these 'difficult' areas a paint is easier to apply in a satisfactory manner. However, most paints sold as 'model paints' have been developed for other applications e.g. epoxy paint is often a paint for use on full size yachts and 'polyurethane' can be merely an ordinary house paint disguised by a different thinner. These 'model paints' have inherent snags - the hardeners for epoxies are toxic and very dangerous to health, the 'polyurethanes' darken with age and often have poor fuel resistance.

Also there is a problem of colour - it is difficult and frustrating trying to blend several shades of paint to an exact match with a SOLARFILM or SOLARTEX colour. Normal paints do not stick to SOLARFILM at all.



SOLARLAC is a unique new paint formula developed by Solarfilm to fill the special requirements of modellers. It excels in modeling applications (but it might not be as successful if used on a full-size yacht or to paint a house!)

Solarlac has the following outstanding features:

- Adheres to SOLARFILM and SOLARTEX
- Matches SOLARFILM and SOLARTEX colours
- Is a one-part paint - needs no dangerous toxic hardener
- Brush or Spray - dries quickly (1 to 2 hours)
- Tough, Flexible, Non-yellowing
- Beautiful deep Gloss with high covering power
- Adding 'Flattening Agent' changes Solarlac to a matt paint
- Authentic Military shades from the Mixing Chart
- Good fuel resistance

The SOLARFILM/SOLARTEX/SOLARLAC combination is the best and most versatile covering/finishing system

Preparation of Surfaces for Solarlac

SOLARFILM. Apply SOLARLAC gloss direct to Solarfilm. For matt Solarlac give the Solarfilm a thin coat of CLEARCOAT first, followed by the Solarlac matt.

For a 'mixed' finish i.e. Solarfilm on the large 'easy' areas (wing panels etc.) and Solarlac on the 'difficult' parts (cowls etc.), work in four stages. Stage 1 – One coat of Clearcoat on the parts to be painted. Stage 2 – Several coats of surfacer on top of the Clearcoat, sanding between coats to build up a smooth level surface. Stage 3 – Solarfilm the main areas. Stage 4 – Solarlac the areas prepared in stage 1 & 2.

WOODEN SURFACES (Balsa, ply, obeche). Use the 4-stages given above. When applying surfacer, brush on even coats. Don't try to pile it on, which would only lengthen drying time and the amount of work at the sanding stage. Remember the secret of a good lightweight finish is how much surfacer you sand off – not how much you put on.

METAL, PLASTIC, RESIN. Sand lightly before applying Solarlac. On plastic, test on a small area first to see if the paint has any bad effect (crazing or melting the plastic) before painting. And use only thin coats so the plastic does not absorb solvent from the Solarlac –

SOLARTEX. Solarlac can be applied directly to Solartex or after a tie-coat of Clearcoat. Use several thin coats of Solarlac- avoid thick, wet coats.

For a smooth non-fabric finish, use two coats Clearcoat followed by surfacer but be careful not to sand through to the fabric, which would 'fuzz' up.

ENAMEL OR OIL-BASED PAINTS. The solvents in Solarlac will cause enamelled or oil painted surfaces to 'craze' or 'alligator' Most cellulose and 'car' paints and primers will accept Solarlac – but check first!

SOME BASIC RULES OF FINISHING

- 1 The finish can only be as good as the surface it is applied to – so spend a little extra time on preparation.
- 2 Dust is the enemy of a good finish. Before starting to cover or paint a model, clean and dust your workbench and the surrounding area. Wipe the model down with a clean lint-free cloth to remove all sanding dust. Follow by a wipe with a cloth dampened with thinner. Just prior to covering/painting give a light wipe over with a tack rag.
- 3 Strain paint through a fine nylon cloth into a clean jar or spray gun pot just before use.
- 4 Be safety conscious. Always have adequate ventilation when painting or spraying. Avoid breathing the vapour from the paint. Wear a proper mask over mouth and nose when spraying. Never use paint near a source of ignition (electric motors, irons, hot air guns, gas pilot lights, gas heaters, electric fires etc. can ignite paint vapours and cause a fire or explosion), Store paints and thinners out of reach of children.

MILITARY COLOURS FROM SOLARLAC.

Models of metal skinned military aircraft are best finished in silver Solarfilm/Solarlac, followed by the Camouflage scheme in matt Solarlac. By mixing the basic Solarlac colours, authentic WW 2 and later camouflage shades can be accurately reproduced.

The basic shades are:-

| | |
|-------------------|------------------|
| White (S) | Dark Red (SXH66) |
| Black (S) | Dark Green (H33) |
| Yellow (S) | Dark Blue (H24) |
| Red (S) | Antique (J) |
| Tropic Blue (S) | Grey (H70) |
| Dark Yellow (H49) | Flattening Agent |

** Grey (H70) = 4 parts White (S) + 1 part Black (S)

When the camouflage shade has been mixed add 1 part Flattening Agent for a semi-matt finish. Solarlac is also available to match the H shades in the Solarfilm range. Some of these colours are interchangeable with the S shades in the following camouflage formulas.

Lt. Yellow (H47) = Yellow (S); Bright Red (H65) = Red (S); Lt Blue (H26) = Tropic Blue (S)

MIXING CHART

MILITARY COLOURS

USAAF (WW 2)

Olive Drab

2 parts Dark Red (S)
2 parts Black (S)
1 part White (S)
1 part Dark Yellow (H49)

Neutral Grey

4 parts White (S)
2 parts Black (S)
1 part Tropic Blue (S)

USAAF & USN (WW2)

Interior Green

4 parts Dark Yellow (H49)
3 parts Yellow (S)
2 parts Dark Green (H33)
1 part Black (S)

Zinc Chromate Primer

3 parts Yellow (S)
3 parts Dark Yellow (H49)
2 parts Grey (H70)

Insignia Red

15 parts Dark Red (S)
1 part Red (S)

insignia Blue

3 parts Dark Blue (H24)
1 part Dark Red (S)
1 part Black (S)

USN (WW 2)

Sea Blue

3 parts Black (S)
2 parts Dark Green (H33)
1 part Dark Blue (H24)

Intermediate Blue

4 parts Grey (H70)
3 parts Dark Red (S)
1 part Dark Blue (H24)

Underside White

110ml White (S)
8 drops Black (S)
3 drops Dark Yellow (H49)
2 drops Dark Green (H33)

USN & USMC (mid fifties on)

Light Gull Grey

50 parts White (S)
21 parts Grey (H70)
2 parts Dark Red (S)
1 part Dark Yellow (H49)

Orange Yellow (Trainers)

20 parts Dark Yellow (H49)
4 parts Yellow (S)
1 part Dark Red (S)
1 part White (S)

Light Blue (Trainers)

4 parts Tropic Blue (S)
4 parts Dark Blue (H24)
2 parts Red (S)

R.A.F. (WW 2)

Dark Earth

4 parts Red (S)
2 parts Dark Yellow (H49)
1 part Black (S)
1 part Grey (H70)

Dark Green

6 parts Dark Red (S)
2 parts Dark Green (H33)
1 part Dark Yellow (H49)
1 part White (S)
1 part Black (S)

Middle Stone

3 parts Dark Yellow (H49)
4 parts Grey (H70)
1 part Red (S)
1 part White (S)

Sky

5 parts White (S)
1 part Yellow (S)
1 part Tropic Blue (S)
1 part Grey (H70)

Medium Sea Grey

3 parts Grey (H70)
1 part White (S)

Ocean Grey

7 parts Grey (H70)
3 parts Black (S)
1 part Dark Green (H33)

Trainer Yellow (RAF & RCAF)

9 parts Dark Yellow (H49)
7 parts Yellow (S)
3 parts Antique (J)
2 parts Dark Red (S)

LUFTWAFFE (WW 2)

Grey

20 parts Grey (H70)
2 parts Dark Yellow (H49)
2 parts Red (S)
1 part Dark Green (H33)

Light Blue

10 parts Grey (H70)
7 parts White (S)
2 parts Tropic Blue (S)
1 part Dark Green (H33)

Black Green

5 parts Black (S)
2 parts Dark Green (H33)

Light Blue

48 parts White (S)
3 parts Grey (H70)
2 parts Tropic Blue (S)
2 parts Black (S)
2 parts Dark Green (H33)

Dark Green

7 parts Red (S)
4 parts Dark Green (H33)
3 parts Black (S)
3 parts Yellow (S)

Grey-Green

6 parts Black (S)
2 parts Grey (H70)
1 part Dark Green (H33)
1 part Yellow (S)

Dark Green

4 parts Black (S)
4 parts Dark Green (H33)
3 parts Red (S)
2 parts Dark Yellow (H49)

Grey-Violet

2 parts Black (S)
1 part Grey (H70)
1 part Red (S)
1 part White (S)

JAPAN (WW 2)

Dark Green

6 parts Black (S)
4 parts Dark Green (H33)
2 parts Dark Red (S)
1 part Dark Yellow (H49)

Light Grey

28 parts White (S)
10 parts Grey (H70)
6 parts Antique (J)
1 part Yellow (S)

Light Grey

16 parts White (S)
13 parts Grey (H70)
8 parts Antique (J)
1 part Yellow (S)

Black-Green

6 parts Dark Green (H33)
2 parts Black (S)
1 part Red (S)

Grey-Green

20 parts Grey (H70)
2 parts Dark Yellow (H49)
2 parts Red (S)
1 part Dark Green (H33)

Primer (Translucent Blue)

5 parts Dark Blue (H24)
2 parts Silver (S)
1 part Dark Green (H24)

MIXING CHART

SOLARFILM COLOURS

OTHER SOLARFILM COLOURS

Light Orange (F)

2 Parts Orange
1 Part Yellow

Light Green (F)

2 Parts Dark Green
1 Part White

Blackberry

5 Parts Violet
1 Part Red

Olive Drab (J)

1 Part White
1 Part Yellow
1 Part Dk Red
1 Part Black

Medium Blue

1 Part White
3 Parts Dark Blue

OTHER SOLARSPAN COLOURS

Cub Yellow

1 Part Yellow
5 Parts Dark Yellow

International Orange

4 Part Orange
1 Part Red

Fokker Red

Dark Red

Flag Blue

2 Parts Lux Blue
3 Parts Dark Blue

Lite Blue

1 Part Lux Blue
1 Part White

OTHER SOLARSPAN COLOURS

Cream

10 Parts White
5 Parts Antique
1 Part Yellow

2 drops Black in each 10ml.

OTHER SOLARTEX COLOURS

Yellow

4 parts Yellow
1 Part White

Cub Yellow

Dark Yellow

Orange

1 Part Yellow
1 Part Orange

Light Red

5 Parts Red
1 Part Orange

Olive Drab

7 Parts Black
7 Parts White
2 Parts Yellow
3 Parts Orange

DK. Green PC10

7 Parts Blue
4 Parts White
2 Parts Yellow
3 Parts Orange

Linen

Antique

Light Blue

Lux Blue

** Mix 2 Parts Yellow and
1 Part White and add slowly to Lux Blue
until correct shade

OTHER POLYESTER COLOURS

Light Yellow

4 Parts Yellow
1 Part Yellow

Cub Yellow

Dark Yellow

Light Orange

7 Parts Orange
2 Parts Yellow

Light Red

5 Parts Red
1 Part Orange

Light Green (F)

2 Parts Dk Green
1 Part White

Flag Blue

2 Parts Lux Blue
3 Parts Dk Blue

Light Blue

40 Parts Lux Blue
2 Parts Yellow
1 Part White **

Dark Blue

7 Parts Dark Blue
1 Part White
3 Parts Black

OTHER GLOSSTEX COLOURS

Yellow

4 Parts Yellow
1 Part White

Cub Yellow

Dark Yellow

Orange

7 Parts Orange
2 Parts Yellow

Light Red

5 Parts Red
1 Part Orange

Light Blue

40 Parts Lux Blue
2 Parts Yellow
1 Part white**

Ocean Blue

Ocean Blue

Dark Blue

7 Parts Dark Blue
1 Part White
3 Parts Black



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