



HMG Coatings (South) Ltd
 Faraday Park
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Tel: 01264 356296
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PRODUCT NAME

Synergy® JC12 1pk Polyurethane

TECHNICAL DATASHEET

PRODUCT DESCRIPTION

JC12 1pk Polyurethane is a single component topcoat which is specially formulated to give the performance benefits of polyurethane alkyd resin technology. It offers high solids and is a VOC compliant topcoat as defined in EPA guidance notes as PG6(34) and PG6(23).

INTENDED USES:

JC12 1pk Polyurethane is designed for the coating of vehicle trailers, chassis, agricultural implements and general machinery. It offers improved durability, drying, film hardness and an increased resistance to cleaning chemicals etc. Please phone us on 01264 356296 for specific recommendations.

TECHNICAL INFORMATION

COLOUR

Wide colour range available, including most British Standards, RAL and special colours to customer requirements. Some colours may contain lead-chromate pigments, check label for details.

GLOSS LEVEL

Full gloss.

VOLUME SOLIDS

Typically 50%, varying slightly with colour

VOC

Below 420 grams per litre when applied unthinned.

FILM THICKNESS

A dry film thickness of 37-50 microns is recommended, which is approximately equivalent to a wet film thickness of 75-100 microns.

THEORETICAL COVERAGE

13.3 square metres per litre when sprayed at a wet film thickness of 75 microns.
 NB. The practical coverage rate depends on many factors and will be less than the theoretical figure.

METHOD OF APPLICATION

Apply by spray, brush or roller to suitably prepared substrates.
 Airless tip size 9-11 thou



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DRYING TIME

Touch Dry.....1 ½ - 2 ½ hours.
Thorough Dry.....3 – 5 hours
Hard Dry.....Overnight
Drying times will vary with the actual conditions such as: film thickness, air movement, temperature, humidity, the presence of primer (its type, over coating interval and film thickness).

FLASH POINT

Above 32°C

SHELF LIFE

12 months in unopened containers, dependant on temperature and conditions. Mix thoroughly before use.

PACKAGING

5 and 20 litre.

SHELF LIFE

12 months in the original, unopened containers when stored under cover within the temperature range 5 -35 °C. Mix thoroughly before use.

HEALTH AND SAFETY

Familiarise yourself with MSDS before using this product. If you need to obtain copies, telephone us on 01264 356296.

APPLICATION

SUITABLE SUBSTRATES

Suitable substrates include: HMG Universal Primer, HMG Super Build Primer and suitably prepared old paintwork

SURFACE PREPARATION

JC12 1pk Polyurethane should be applied to a suitably prepared or undercoated surface. Clean all old paintwork, removing loose and flaky paint, any oil or greasy residues, dust, scale, rust, etc. These surfaces must then be lightly flatted to ensure an adequate key before the application of JC12 1pk Polyurethane.



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APPLICATION PROCESS

Painting should only be carried out under good atmospheric conditions and clement weather. Painting and preparation should NEVER be undertaken when the air temperature is likely to fall below 5°C, or the surface to be painted is damp or when condensation may occur during the initial drying period (such as when there is fog, mist, snow or if rain is imminent).

NB. If recently applied primers or undercoats are denibbed/flatted, an extended period should be allowed for the surface to recover. Failure to follow this instruction could result in surface defects such as 'lifting' or 'crazing'.

A light 'mist' coat should be applied and allowed to flash off for ten to fifteen minutes before the application of a full wet coat.

OVERCOATING

Recoat after overnight drying.

For multicolour applications, mix the first colour coat of JC12 1pk Polyurethane with JC12 1pk Polyurethane Hardener in accordance with its product data sheet. Please note that paint mixed with JC12 1pk Polyurethane Hardener has a 1 hour pot life and is not suitable for hot spray application. Allow to dry overnight before applying the second colour. It is advisable to test an inconspicuous area for tape marking before starting the job and to remove the masking tape as soon as possible after painting.

Before the application of self-adhesive decals etc., the painted surface must be thoroughly, but gently, wiped with 1 pack PU Thinners to ensure good adhesion.

THINNING AND CLEANING

THINNING

This product is supplied 'ready for use' for application by airless and hot spray, brush or roller. Slight thinning with 1 pack PU Thinners may be required for cold suction feed air spraying but this will render the coating 'non-compliant'.

CLEANING

Clean all equipment using HMG Gunwash immediately. Ensure all lines, tips, etc. are thoroughly flushed out. It is not sufficient to leave equipment filled up with solvent.

NOTES

The foregoing information is given in good faith on the basis of practical experience and extensive laboratory tests. Quoted figures are either theoretical values or typical of production batches. However, as we have no control over the conditions of application or the quality and standard of preparation of the substrate and the many other factors affecting the use and application of the product, the customer must determine the suitability of the delivered product for the intended application.

Therefore unless we specifically agree in writing to do so, we do not accept any liability whatsoever or howsoever arising for the performance of this product or for any loss or damage arising out of the use of the product, or its use in conjunction with other manufacturer's product(s). Stir the paint well before use and always check the shade as no responsibility for a colour complaint is accepted after application. The information in this data sheet is liable to modification from time to time in the light of experience and our policy of continuous improvement. For professional use only.

Technical Data Sheets are also available on our website at www.hmgcoatings.co.uk

ALL MATERIALS SHOULD BE STIRRED AND CHECKED FOR COLOUR AND SHEEN BEFORE USE. NO CLAIMS FOR DISCREPANCY OF COLOUR OR GLOSS CAN BE ACCEPTED AFTER USE. INFORMATION CONTAINED ON THIS DATA SHEET IS TO THE BEST OF OUR KNOWLEDGE TRUE AND ACCURATE AND IS GIVEN IN GOOD FAITH, BUT WITHOUT WARRANTY, SINCE THE APPLICATION, USE AND PROCESSING OF THE PRODUCT IS BEYOND OUR CONTROL.