



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

SYNERGY® PU12 TOPCOAT

TECHNICAL DATASHEET

PRODUCT DESCRIPTION

PU12 two pack Topcoat is a water based low odour paint which is non-flammable, non toxic and meets all current and anticipated future environmental legislation. PU12 Topcoat is an extremely durable finish with maximum performance, good gloss retention and is very user friendly.

The technology behind PU12 Topcoat allows for quick turnaround due to the fast drying properties combined with rapid film hardness which imparts an extremely tough, durable finish with outstanding scratch and abrasion resistant PU12 Topcoat also provides excellent solvent & chemical resistance properties combined with excellent exterior weathering properties.

PU12 Topcoat provides excellent adhesion and is also very versatile as it can be applied to wide variety of surfaces.

PU12 Topcoat is suitable for interior and exterior applications and available in all standard colours and can also be matched to your specification.

PURPOSE

PU12 two pack durable topcoat has been developed to provide a decorative and protective finish over a wide range of steel, galvanised steel and previously painted surfaces.

MAIN BENEFITS

- Water-borne, so is environmentally friendly and has low odour.
- Extremely durable.
- Excellent scratch and abrasion resistant
- Excellent gloss level and retention.
- Recommended for a wide range of metallic surfaces.
- Excellent adhesion to various substrates.
- Excellent weather resistance.
- Excellent mechanical properties.
- Low VOC and environmentally friendly.
- Easy to clean and maintain.
- Suitable for ambient or forced dry applications.
- Good coverage rates.
- Cost effective.

LIMITATIONS

Do not apply when relative humidity exceeds 85% or the surface is less than 3°C above dew point.

TECHNICAL PROPERTIES

Density (S.G.):	Approx. 1.10 – 1.30kg / l (Mixed product, depending on colour)
Solid Content:	40%

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Recommended Thickness:	75 – 250 microns wet paint thickness 30 – 100 microns dry paint thickness
Coverage Rate:	10 – 12m ² /litre
Recoat Time (At Ambient):	Minimum: 12 hours Maximum: 4 days
Colours:	BS 4800, BS 381C, RAL or others available on request
Gloss:	Full Gloss to Matt

SURFACE PREPARATION

For New Steel

Surfaces should be free of grease, oil, salts and other contamination before application.

Rust and mill scale should be removed by blast cleaning to Sa 2.5. For long term corrosion resistance a suitable anti-corrosive primer should be applied (Contact technical team at HMG Coatings (South) Ltd for information). Apply the primer ideally as soon as possible but no longer than 4 hours.

Existing Coatings

Ensure the adhesion of the existing coating to the substrate and the soundness of the interlayer adhesion of the existing coatings.

For loose, flaking or otherwise defective areas: Carefully remove to a firm edge.

For all the remaining retained coating, thoroughly clean to remove dirt, grease and other contaminants. Abrade gloss-coated surfaces to provide a key. Rusted areas should be treated and any uncoated metal areas should be dry primed with a suitable product (Contact technical team at HMG Coatings (South) Ltd for information).

AMBIENT DRYING

At 20°C and 65% relative humidity

Touch Dry	1 – 2 hours
Hard Dry	2 – 3 hours
Fully Cured	7 days

FORCED DRYING

The recommended forced drying schedule is 10 – 15 minutes air dry, followed by 20 – 30 minutes at 60 - 80°C. Actual conditions will depend on air movement, paint thickness and heat sync of object coated. Please discuss with HMG recommended conditions for your particular application.

APPLICATION EQUIPMENT

Apply with a brush, mohair roller, conventional, airless or air assisted spray.

PRETESTING

Always test type of surface to ensure suitability and desired result. Apply test area according to the preparation and application procedures.



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MIXING

Mix components activator into base and thoroughly mix for 5 minutes. Mechanical mixing is preferred, but restrict the possibility of entrapping air in the paint during mixing.

POT LIFE

Once mixed, the pot life is approximately 4 hours at 20°C.

APPLICATION CONDITIONS

Min Ambient Temperature: 8°C
 Max Ambient Temperature: 35°C

If painting outside do not apply if the air substrate temperature is below 8°C whilst applying and until the paint is fully through dry. Water-borne coatings should not be applied in conditions of high humidity.

APPLICATION INSTRUCTIONS

Follow the surface preparation instructions.

Brush: Use a good quality brush. Do not thin.
 Roller: Use a short pile sheepskin or Mohair for best results. Do not thin.
 Conventional Spray: Thin up to 15% with water. Use 50 – 60 psi and 1.4 – 1.8mm fluid tip.
 Airless Spray: Use tip size 9 – 15 thou and pressure 1500 – 2200 psi.

CLEANING

Once the task is complete, equipment should be cleaned immediately **with water**.
 Dried paint can be removed with strong solvent.
 Do not allow paint to dry on spray tips.

STORAGE

Store between 5°C and 30°C.
 Maximum storage period is 6 months in original containers.

PACKAGING

5 litre containers.

HEALTH & SAFETY INFORMATION

Wear suitable protective clothing. Avoid splashing to bare skin and eyes. Always refer to health and safety data sheet before use.

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.