HAMMERITE

DIRECT TO RUST SMOOTH FINISH

- A glossy, smooth finish for a flawless high sheen
- Formulated to offer up to 8 years protection
- Apply directly to rust with no need for primer or undercoat
- 250ml, 750ml, 2.5L and 5L available in select colours
- Select range of colours available in 400ml aerosol

*available in aerosol

DIRECT TO RUST SATIN FINISH

- A satin sheen finish for a more subtle effect
- Formulated to offer up to 8 years protection
- Apply directly to rust with no need for primer or undercoat
- 250ml, 750ml, 2.5L and 5L available in select colours
- Black available in 400ml aerosol

*available in aerosol

DIRECT TO RUST HAMMERED FINISH

- A subtle hammered effect with a metallic sheen
- Formulated to offer up to 8 years protection
- Apply directly to rust with no need for primer or undercoat
- 250ml, 750ml, 2.5L and 5L available in select colours
- Select range of colours available in 400ml aerosol

*available in aerosol

DIRECT TO GALVANISED METAL PAINT

- Glossy, smooth finish
- Can be applied directly onto non-rusting metals
- No primer required
- One coat application
- 750ml

GARAGE DOOR PAINT

- Easy to apply to vertical surfaces, sag resistant
- Tough and durable
- Smooth gloss finish
- 750ml

HIGH HEAT PAINT

- Withstands temperatures up to 600°C
- Durable, heat resistant protective finish
- No primer required
- Quick drying
- Available in 400ml aerosol

BARBECUE PAINT

- Durable, heat resistant protective finish
- Withstands temperatures up to 600°C
- No primer required and quick drying
- Available in 400ml aerosol

KURUST

- Simple to apply - no need to rinse off
- Can be top coated after only 3 hours
- Available in 12.5ml pencil and 90ml and 250ml bottles

NO1 RUST BEATER

- Suitable for large and heavily pitted areas of rust
- Compatible with most topcoats
- Brush or aerosol application
- 250ml, 500ml, 2.5L, 5L and 400ml aerosol

SPECIAL METALS PRIMER

- A primer for non rusting metals such as galvanised steel and aluminium
- Quick and easy to use
- Only one coat required
- Topcoat can be applied after 1-2 hours
- 250ml, 500ml and 2.5L

RUST REMOVER

- Gel – non-drip formulation, ideal for vertical surfaces
- Dip – immerse rusty items, ideal for nuts, bolts and garden tools
- Removes rust in 2-3 hours
- Will not damage paintwork

BRUSH CLEANER & THINNERS

- For cleaning brushes and spills
- For use with Hammerite Metal Paint
- Outperforms white spirit and cellulose thinners
- Allows easy roller application

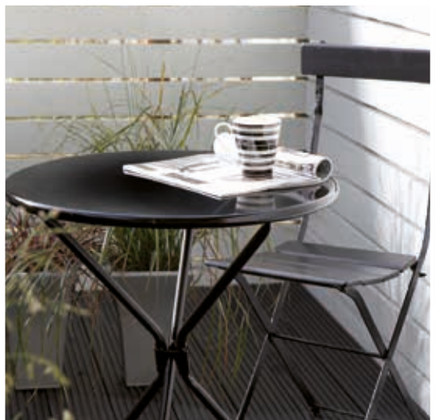
HAMMERITE™

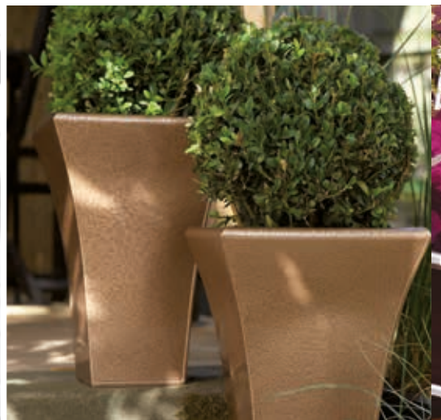
THE METAL PAINT SPECIALIST

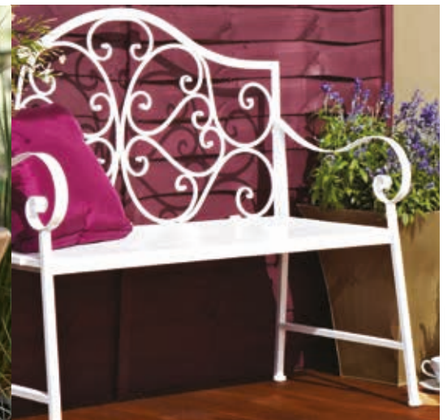
ULTIMATE METAL PROTECTION

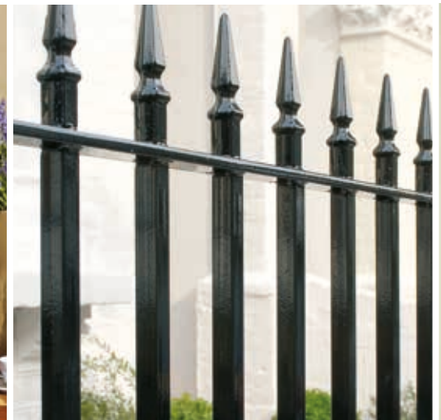
HAMMERITE TECHNICAL GUIDE

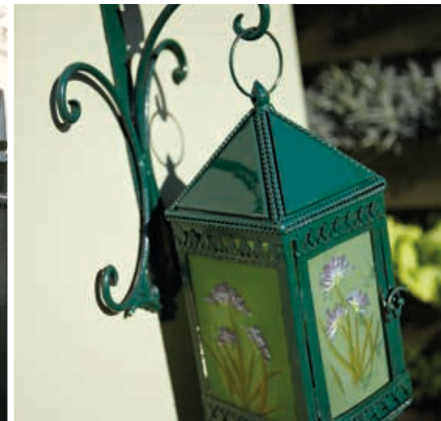
www.hammerite.com.au











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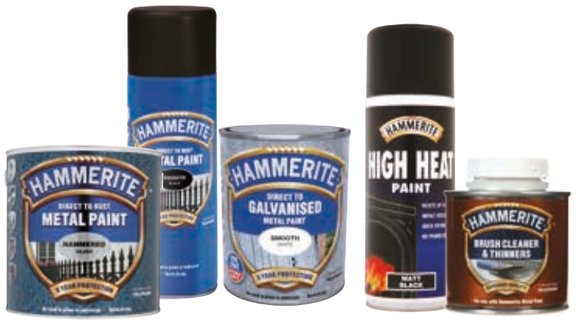
PROTECTING YOUR METAL

Hammerite provides a range of paints and rust treatments which are easy and convenient to use, enabling you to protect and rejuvenate your metal. Hammerite offers technical excellence and quality that you can count on.



CONTENTS

HAMMERITE DUALTECH

Hammerite Direct To Rust Metal Paint now features even stronger protection against rust. DUALTECH provides two-way protection. By repelling water it limits surface damage, and by stopping rust forming underneath with its anti-corrosion formulation it keeps the metal stronger for longer.

HAMMERITE DIRECT TO RUST

- Up to 8 years rust protection when applied as instructed
- Strong adhesion to ferrous metal surfaces
- Apply direct to rust
- No primer needed on iron or steel
- 2 coats recommended
- Surface sheds water and dirt quickly
- Sag-resistant
- Rollable
- Available in a Hammered gloss, Smooth gloss, and Satin finish
- Available in aerosol

Better protection & corrosion resistance

- The thickness of the paint helps to ensure that the user applies the required amount
- 50 microns dry film thickness means only 1 coat needed over previously painted metal
- Higher film build, therefore added protection

Easier to apply

- Longer wet-edge/working time = improved application properties (larger surface areas made easier)

Drying time

- Surface dry in 2 hours, re-coat after 4 hours (depending on conditions)

HAMMERITE DIRECT TO GALVANISED

- Only one coat required*
- Apply direct to metal
- No primer needed in most cases
- Long lasting
- Surface sheds water and dirt quickly
- Rollable
- Easy to apply
- Low odour
- Available in Smooth gloss finish

Easy to apply

- Specially formulated for application straight on to the metal as it combines primer and topcoat in one

Drying time

- Surface dry in 4 hours, re-coat (if needed) after 6 hours (depending on conditions)

*Over a strongly contrasting colour two coats may be required.

DIRECT TO RUST AND DIRECT TO GALVANISED METAL PAINTS

FREQUENTLY ASKED QUESTIONS

1. Can I spray (with a conventional spray gun) or apply by roller rather than use a brush?

Roller application will give good results in terms of appearance since the paint stays liquid for a while, allowing easy spreading over a large area. It is not normally necessary to thin the paint at all for roller application.
Direct To Rust: For conventional spraying the thinning rate is 15% with Hammerite Brush Cleaner & Thinners. To achieve best results leave one hour between coats to minimise any sagging or runs.

2. Which thinner can be used?

Direct To Rust:
For spray application: Hammerite Brush Cleaner & Thinners.
For washing brushes: Hammerite Brush Cleaner & Thinners.
Direct To Galvanised:
For washing brushes: Hammerite Brush Cleaner & Thinners.

3. What finishes are available?

Direct To Rust: The range is available in Smooth, Hammered and Satin finishes.
Direct To Galvanised: This is available in Smooth gloss.

4. What happens if you were to stir the Hammerite thoroughly as this is not recommended on pack?

Vigorous stirring will not affect the paint detrimentally. The structure is sufficient to recover.

5. Can Hammerite be repainted with alkyd-containing gloss paint?

Direct To Rust: For the Smooth finish generally yes, but we recommend doing a test patch. With regard to the Hammered finish and Smooth Gold / Silver, they can be over-coated with gloss paint but additional preparation will be needed. The previous coating will need to be cleaned / prepared (sanded) well and a suitable primer may be needed to stop any contamination of the new paint. Water-based products in particular will need treating carefully.
Direct To Galvanised: Yes, but we recommend doing a test patch.

6. Does Hammerite need a primer for non-ferrous metal?

Direct To Rust: In order to use this on non-ferrous (non-rusting) metal you must first apply one coat of Hammerite Special Metals Primer.
Direct To Galvanised: No primer is required on weathered / old galvanised steel or aluminium, copper or brass. Please refer to back of pack instructions in order to prepare the surfaces correctly.

7. What temperature can Hammerite resist?

80°C continuous, 150°C intermittent.

8. Can Hammerite be used under water?

No.

9. After how many years should Hammerite be repainted?

Direct To Rust: Current tests show performance of up to eight years corrosion protection under “normal” conditions. In countries with high UV exposure or high UV areas e.g. close to expanses of water, it may be necessary to restore the appearance with a single maintenance coat after roughly 3 years depending on circumstances.
Direct To Galvanised: The appearance should be checked after 2 years. Depending on the conditions the metal has existed in (e.g. hard frosts, laying snow on paint film, high UV areas) the coating may or may not need to be rubbed back and one maintenance coat applied.

10. What should be used to clean galvanised steel?

The standard recommendation is to use soapy water. This will remove any salts which might encourage rusting where the substrate has lost its zinc coating.

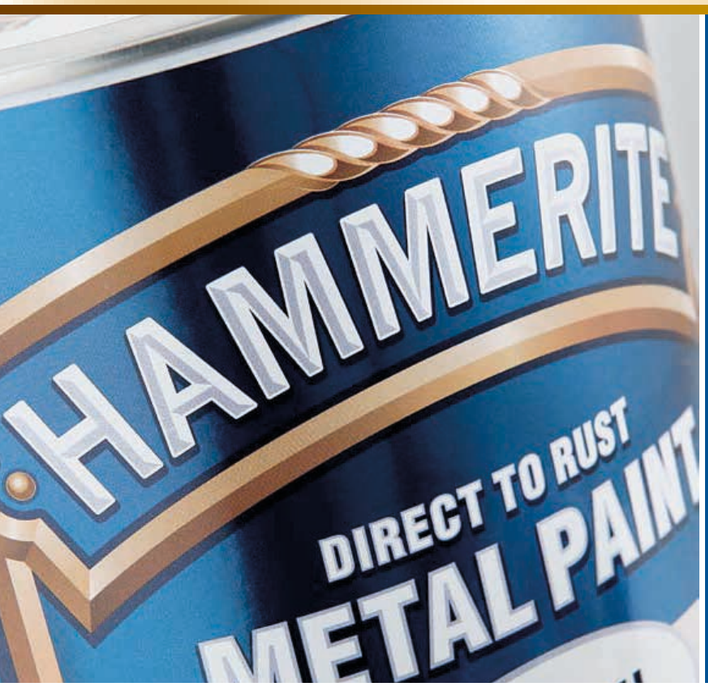
11. Can Hammerite Direct To Galvanised Metal Paint be applied to roofs / flat roofs?

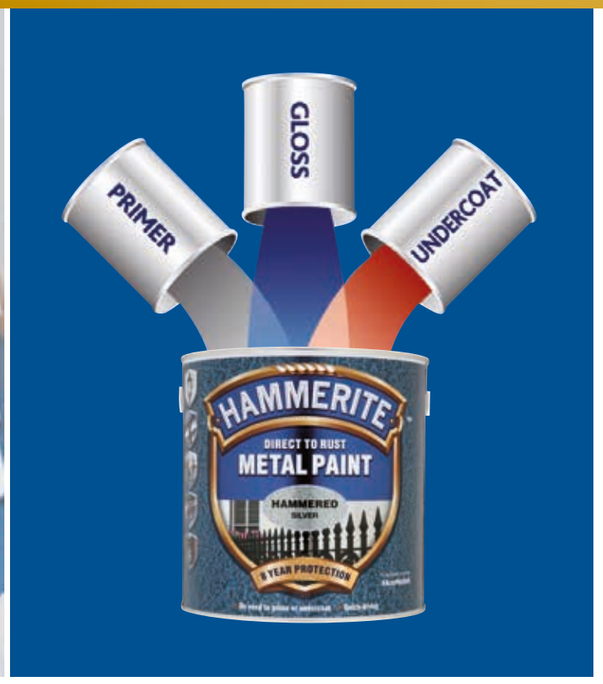
For sloping roofs - This product has not been specifically tested for this type of application so it is applied at the users discretion. For flat roofs - These are totally exposed and it is common to have water sitting on the surface for long periods. This could cause wet-adhesion failure in Hammerite, so it should not be used for this purpose.

12. Can Hammerite Direct To Galvanised Metal Paint be applied to ferrous metal?

It should not be applied direct to ferrous metal as it does not contain anti-corrosives. A suitable ferrous metal primer should first be applied (Hammerite No1 Rust beater) before application of Hammerite Direct To Galvanised Metal Paint, but the preferred system would be to use Hammerite Direct To Rust Metal Paint.

HAMMERITE DIRECT TO RUST METAL PAINT





Hammerite Direct To Rust Metal Paint is a single pack air-drying coating which delivers a decorative, corrosion resistant finish. Hammerite is fast drying and can be recoated after 4 hours. The specially selected resins impart a gloss or satin finish which resists dirt pick up. Hammerite has excellent wetting properties making it tolerant to poorly prepared ferrous surfaces. It is available in Smooth gloss, Hammered gloss and a Satin finish in a brushing formulation and in an aerosol.

USE

As a corrosion-resistant and decorative coating for ferrous metals, wood and certain plastics.

APPEARANCE

Hammerite Smooth - a smooth gloss.

Note: Gold, Silver and Copper are metallic sheen finishes.

Hammerite Hammered - a smooth gloss incorporating a hammered pattern.

Note: Pattern will vary depending on temperature, colour, substrate and method of application.

Hammerite Satin - a satin finish (less shiny than the Smooth & Hammered finishes).

COLOUR RANGE

See Hammerite Colour & Product Guide or back cover of this guide. Hammerite Hammered, Smooth and Satin finishes are produced to the in-house colour standards of the AkzoNobel group and are not matched to BS 4800 or RAL standards.

COLOUR MIXING

All Hammerite Hammered colours can be intermixed although the pattern may be affected.

All Hammerite Smooth colours can be intermixed except for Smooth Gold, Silver and Copper.

SURFACE PREPARATION

FOR RUSTED METAL SURFACES

- Abrade the surface using coarse emery paper. Treatments such as sanding, burning off etc. of paint films may generate hazardous dust and/or fumes. Wet sanding/ flatting should be used wherever possible. Work in well ventilated areas. Use suitable personal protection equipment
- All surfaces must be dry and free from loose rust, dirt, dust, grease and salt

BARE METAL SURFACES

- Degrease with Hammerite Brush Cleaner & Thinners

PAINTED METAL SURFACES

- Abrade the painted surface to remove contaminants/gloss
- Wash down thoroughly with diluted detergent
- Rinse with clean water
- Allow to dry
- Test for compatibility with existing paint by painting a small test area first. Any compatibility problems will be evident within the first hour after application

SHINY, SMOOTH METAL SURFACES

- Extra abrasion is required to ensure maximum adhesion
- Degrease with Hammerite Brush Cleaner & Thinners

UNPAINTED GALVANISED/ALUMINIUM/ NON-FERROUS METAL SURFACES

- To ensure maximum adhesion on aluminium and non-ferrous metal surfaces use Hammerite Special Metals Primer

Notes:

- In many areas (industrial and coastal districts in particular) soluble salts may contaminate the substrate. It is essential to scrub and rinse repeatedly with clean water to remove this contamination
- Extremely rough or pitted ferrous metals will benefit from the application of Hammerite No1 Rust Beater before using Hammerite paint

OTHER SURFACES

PLASTICS

- Hammerite paint may be used on certain types of plastic, such as the outside of drainpipes and guttering
- Apply a water-based plastic primer before applying Hammerite paint
- Hammerite should not be used on surfaces that are subject to prolonged contact with water such as the inside of guttering

WOOD

- Bare wood
  - Apply a water-based acrylic wood primer before applying Hammerite paint
- Painted wood
  - Abrade the painted surface to remove contaminants/gloss
  - Wash down thoroughly with diluted detergent
  - Rinse with clean water
  - Allow to dry

RECOMMENDED FILM THICKNESS

- Minimum 200 microns wet
- Minimum 100 microns dry

Note: The number of coats required to achieve this will vary depending on substrate and method of application.

COVERING CAPACITY

Up to 5 m^2/L for two coats at recommended dry film thickness (brushing).

APPLICATION CONDITIONS

Normal system is to apply at least 2 coats leaving at least 4 hours between coats. However, if applying over a previously painted surface which is in a good condition then 1 coat may be sufficient.

- **Application temperature:** 10-25°C (50-77°F)
- **Maximum relative humidity:** 85%

APPLICATION METHODS

BRUSH - Suitable for small flat areas and intricate wrought ironwork.

- Stir before use
- At least two coats must be applied to bare or rusty metal to achieve the film thickness required for corrosion resistance. If Hammerite paint is applied too thickly it can sag and will take longer to dry. Therefore, one thick coat should not be applied
- Ensure edges and corners are adequately coated as these are at greatest risk of premature rusting

ROLLER - Suitable for larger flat areas.

- Hammerite is designed to be ready for use, however Hammerite Direct To Rust Metal Paint can be thinned to ease roller application. Use Hammerite Brush Cleaner & Thinners at a ratio of 9 parts paint to 1 part Hammerite Brush Cleaner & Thinners
- The edges should be brushed in first and the remaining areas quickly filled in with the roller
- For best results apply liberally using short, quick strokes

HAMMERITE DIRECT TO RUST METAL PAINT

APPLICATION METHODS continued

SPRAY - Suitable for large, flat and uneven surfaces.

For both conventional spray and airless spray

- Shake spray gun before and during use to ensure an even colour
- For best results use Hammerite Brush Cleaner & Thinners to thin the paint

Conventional Spray

- Thin Hammerite Direct To Rust Metal Paint with 15% Hammerite Brush Cleaner & Thinners
- Set professional spray gun to between 25/35 psi (approximately 2 Bar)
- Use a full fan spray at maximum spray volume
- Apply 3-4 thin coats allowing approximately 30 minutes to 1 hour between coats. Do not leave too long between coats as this could lead to wrinkles forming. The final coat should be sprayed heavily enough to flow to a glossy finish avoiding runs and sags

Airless Spray

- If necessary thin Hammerite Direct To Rust Metal Paint with 15% Hammerite Brush Cleaner & Thinners
- Fluid pressure: 2500 - 3000 psi (approximately 170 Bar)
- Nozzle size: 375-500 microns/0.015 - 0.020”
- Apply 2-3 coats, leaving each coat for approximately 1 hour or until it is touch dry before applying further coats

AEROSOL - Suitable for touch up / small applications.

- Store aerosol at room temperature for two hours prior to use
- Shake can vigorously for a full three minutes AFTER the agitator ball is heard. Use a vertical rather than a horizontal motion
- Apply light even coats from a distance of approximately 25-30cm. To avoid runs and sags keep the aerosol moving. Do not concentrate the spray in any one spot
- Several thin coats are recommended, particularly on intricate and vertical surfaces. Allow approximately 15 minutes between coats
- To avoid blockages, invert can and spray for 2 seconds between coats and after final use

HOW TO ENSURE MAXIMUM PERFORMANCE WHEN SPRAY FINISHING

Problem	Potential Cause	Remedy
1. Colour or shade varies	Pigment settling in gun	Shake gun more frequently and apply further coats
2. Rough ‘sandpapery’ appearance lacking gloss	Paint drying too quickly Gun pressure may be too high	Check for blocked jets or air vents in container. Reduce gun pressure
3. Excessive consumption	Pressure too high causing ‘bounce’ Conditions too windy	Reduce gun pressure Wait for still conditions
4. Paint runs	Excessive thickness in one coat	If not too severe wait 60 minutes and re-spray If very bad, allow to dry fully, level off with emery and re-spray
Hammered Finish Only		
1. Pattern very small or no pattern at all	Final coat too thin	Apply a thicker coat
2. Surface is uneven with pin-holes or craters	Temperature too low causing pattern drift	Minimum recommended application temperature 10°C (50°F)

DRYING TIME

- **Touch/Surface Dry:** 2 hours approximately
- **Intercoat Period:** 4 hours

NOTE: Times may change depending on weather conditions.

CLEANING

Use Hammerite Brush Cleaner & Thinners.

SHELF LIFE AND STORAGE CONDITIONS

Tins

Minimum two years at 21°C (70°F) stored in the original, unopened container. Hammerite paint should be stored in a dry, well-ventilated area. Protect from extremes of temperature, frost and strong sunlight.

Aerosol

Minimum two years at 21°C (70°F) in original unopened container. Pressurised container - protect from sunlight and do not expose to temperatures exceeding 50°C (120°F). Do not pierce or burn even after use.

For safe disposal

Remove as much product as possible from brushes, rollers and equipment before washing. Some local authorities have special facilities for disposing of waste products. Do not empty into drains and watercourses.

CORROSION RESISTANCE

Excellent corrosion resistance. Passes 750 hours ASTM G85 Annex A5 at 100 microns dry film thickness ASTM D609, Type 2 A366 steel panels.

IMPACT RESISTANCE

Excellent impact resistance. Passes 20cm (face) ASTM2794, falling ball 1 kg at 7 days at 100 microns dry film thickness.

ADHESION

Excellent adhesion resistance. Passes ISO 2409, 7 days at 100 microns dry film thickness.

CHEMICAL RESISTANCE

Resists splashing by dilute acids/alkalis, petrol and diesel when fully cured.

TEMPERATURE RESISTANCE

Limits

Withstands minimum temperatures of -20°C (-4°F).

Hammerite Direct To Rust Metal Paint withstands intermittent maximum temperatures of 150°C (300°F) when fully cured.

It can withstand 80°C (180°F) continuous heat once fully cured.

NOTE: Colours may fade after prolonged exposure at temperatures exceeding 50°C (120°F).

UV RESISTANCE

Hammerite will resist the effects of UV damage. Longevity could be reduced in hot climates or south-facing aspects where extremes of UV levels and temperature are present.

NOTE: All decorative alkyd based paints will fade or chalk when exposed to heat and UV radiation.

SERVICE LIMITATIONS

Not suitable for use on equipment which may operate at 80°C (180°F) or above.

Not suitable for use in contact with drinking water or foodstuffs.

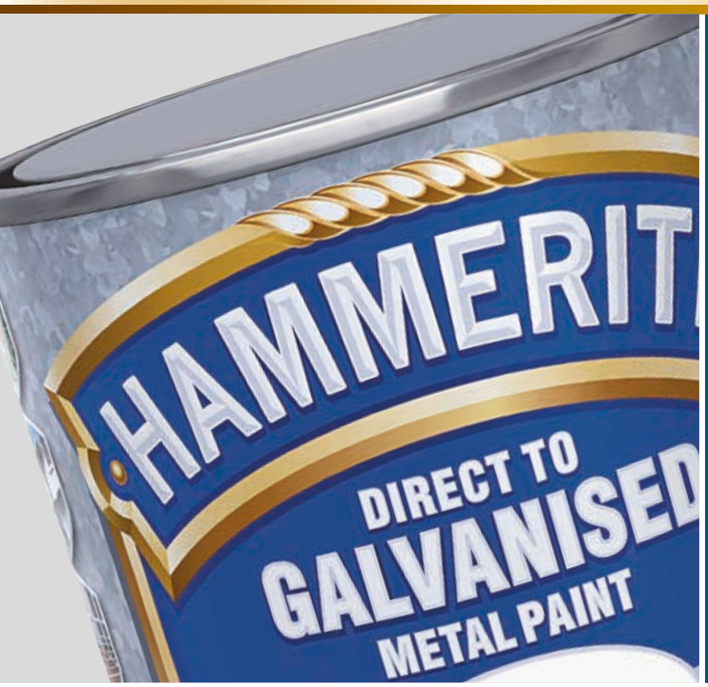
Not suitable for permanent immersion.

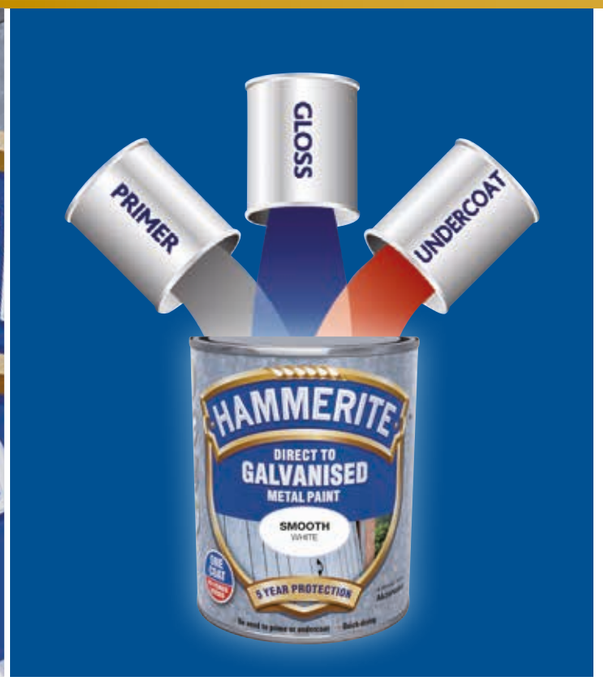
VOC LEVEL

Hammerite conforms to EU Directive 2004/42/CE for VOC. The products shown above are classified as Category A/i 500g/l (2010).

The product contains maximum of 499 g/l.

HAMMERITE DIRECT TO GALVANISED METAL PAINT





Hammerite Direct To Galvanised Metal Paint is a single pack, air-drying decorative coating for application to galvanised steel and other non-ferrous metals without the need for a primer. The product uses an alkyd designed for high quality air-drying finishes. It has fast surface dry and excellent through-dry in thick films so allowing quick recoatability. Hammerite Direct To Galvanised Metal Paint can be applied by brush or roller. The specially selected resin imparts a gloss finish which resists dirt pick up. Hammerite Direct To Galvanised Metal Paint is designed to give excellent one coat coverage.

USE

As a decorative coating for galvanised and non-ferrous metals, wood and certain plastics.

COLOUR RANGE

See Colour and Product Guide or back cover of this guide.
Note: Hammerite Finishes are produced to the in-house colour standards of the AkzoNobel group and are not matched to BS 4800 or RAL standards.

APPEARANCE

Smooth Gloss.

NOTE: Silver and Copper are metallic sheen finishes.

COLOUR MIXING

Do not mix Hammerite Direct To Galvanised Metal Paint with any other Hammerite finishes.

SURFACE PREPARATION

WEATHERED GALVANISED STEEL

- New galvanised steel ideally should be weathered until dull before application of Hammerite Direct To Galvanised Metal Paint (this is true of both spangled and non-spangled galvanised steel)
- Abrade giving a key to subsequent coatings. This is essential to remove any pre-treatment factory finish (chromate pre-treatment). Abrasion should be with coarse sandpaper rather than fine to ensure removal of this coating
- Degrease with Hammerite Brush Cleaner & Thinners or diluted detergent (preferred option) both for removal of surface contaminants and soluble salts
- Rinse with clean water
- Allow to dry

NEW BARE GALVANISED STEEL

- Abrasion is required to ensure maximum adhesion
- Wash down thoroughly with Hammerite Brush Cleaner & Thinners or diluted detergent (preferred option) both for removal of surface contaminants and soluble salts
- Rinse with clean water
- Allow to dry
- Apply a phosphoric acid etch primer (mordant solution) to convert the galvanised steel zinc surface before application of Hammerite Direct To Galvanised Metal Paint

PAINTED METAL SURFACES

- Abrade the painted surface to remove contaminants/gloss
- Wash down thoroughly with Hammerite Brush Cleaner & Thinners or diluted detergent (preferred option) both for removal of surface contaminants and soluble salts
- Rinse with clean water
- Allow to dry
- Test for compatibility with existing paint by painting a small test area first. Any compatibility problems will be evident within the first hour after application

RUSTED METAL SURFACES

- For rusty steel or iron: Hammerite Direct To Galvanised Metal Paint is not suitable for ferrous metal. Use Hammerite Direct To Rust Metal Paint
- For light white rust on galvanised steel (light powdery deposit): Wipe clean with a paint brush, abrade, and degrease as mentioned previously
- For moderate white rust on galvanised steel (darkening and apparent etching of the surface): Brush affected area using a wire brush to remove white corrosion, then use a cloth which has been wet with a standard aluminium paint to wipe a thin film onto the affected area. Then abrade and degrease as above
- For severe corrosion on galvanised steel (severe oxide deposits which look brown or black and/or red rust which means the zinc coating has been lost): Apply a standard zinc-rich paint following the on-pack instructions. Then following the zinc-rich paint over-coating instructions apply Hammerite Direct To Galvanised Metal Paint on top. It is advisable to test patch a small area before applying to the entire surface

BARE ALUMINIUM, COPPER & BRASS

- To ensure maximum adhesion on aluminium and non-ferrous metal surfaces use Hammerite Special Metals Primer

Note: In many areas (industrial and coastal districts in particular) soluble salts may contaminate the substrate. It is essential to scrub and rinse repeatedly with diluted detergent and rinse with clean water to remove this contamination.

OTHER SURFACES

PLASTICS

- Hammerite paint may be used on certain types of plastic, such as the outside of drainpipes and guttering
- Apply a water-based plastic primer before applying Hammerite paint
- Hammerite should not be used on surfaces that are subject to prolonged contact with water such as the inside of guttering

WOOD

- Bare wood
  - Apply a water-based acrylic wood primer before applying Hammerite paint
- Painted wood
  - Abrade the painted surface to remove contaminants/gloss
  - Wash down thoroughly with diluted detergent
  - Rinse with clean water
  - Allow to dry

HAMMERITE DIRECT TO GALVANISED METAL PAINT

RECOMMENDED FILM THICKNESS

- Minimum 125 microns wet
- Minimum 50 microns dry

One coat will normally be sufficient although additional coats may be required when applying over contrasting colours.

COVERING CAPACITY

Up to 8 m^2/L for one coat at recommended dry film thickness (brushing).

APPLICATION CONDITIONS

Only one coat is usually required. However when applying over a contrasting colour a second coat may be needed. Leave at least 6 hours between coats.

- **Application temperature:** 10-30°C (50-86°F)
- **Maximum relative humidity:** 85%

APPLICATION METHODS

BRUSH - Suitable for small areas.

- Stir before use
- One coat will normally be sufficient but additional coats may be required when applying over contrasting colours
- Ensure edges and corners are adequately coated

ROLLER - Suitable for larger, flat areas.

- Hammerite Direct To Galvanised Metal Paint is designed to be ready for use
- The edges should be brushed in first and the remaining areas quickly filled in with the roller
- For best results apply liberally using short, quick strokes

DRYING TIME

- **Touch / Surface Dry:** 4 hours
- **Recoat:** 6 hours

NOTE: Times may change depending on weather conditions.

CLEANING EQUIPMENT

Use Hammerite Brush Cleaner & Thinners.

SHELF LIFE AND STORAGE CONDITIONS

Tins

Minimum two years at 21°C (70°F) stored in original, unopened container. Hammerite Direct To Galvanised Metal Paint should be stored in a dry, well-ventilated area. Protect from extremes of temperature, frost and strong sunlight.

For safe disposal

Remove as much product as possible from brushes, rollers and equipment before washing. Some local authorities have special facilities for disposing of waste products. Do not empty into drains and watercourses.

IMPACT RESISTANCE

Excellent impact resistance. Passes 15cm (face) ASTM2794, falling ball 1 kg at 7 days at 100 microns dry film thickness.

ADHESION

Galvanised steel provides a difficult surface on which to achieve good adhesion. Good surface preparation will prevent most types of potential adhesion failure. The table opposite may be used as a guide to the causes of adhesion failure and the solutions to rectify these.

CHEMICAL RESISTANCE

Resists splashing by dilute acids/alkalis, petrol and diesel when fully cured.

TEMPERATURE RESISTANCE

Limits:

Minus 20°C (-4°F) to 150°C (300°F) maximum intermittent when fully cured.

Continuous 80°C (180°F) when fully cured.

NOTE: Colours may fade after prolonged exposure at temperatures exceeding 50°C (120°F).

UV RESISTANCE

Hammerite Direct To Galvanised Metal Paint will resist the effects of UV damage. The longevity of the film however could be reduced in hot climates or south-facing aspects where the extremes of UV and temperature are present.

NOTE: All decorative alkyd based paints will fade or chalk when exposed to heat and UV radiation.

ADHESION FAILURE

Cause	Remedy
Surface contamination – oil and grease	Degrease with diluted detergent
Formation of soluble salts (particularly applicable to weathered galvanised steel)	Degrease with diluted detergent
Chromate factory pre-treatment	Abrade to remove
New galvanised steel with large and bright spangle, predominantly zinc	Leave to weather until dull before application of Hammerite Direct To Galvanised Metal Paint or use phosphoric acid etch primer followed by Hammerite Special Metals Primer
Corrosion of the zinc	Refer to Surface Preparation section
Etch primers or 'mordant' solutions	Only use phosphoric acid etch primer – other acid based primers do not cause adhesion failure but will affect the thickness of the galvanised coating
Reaction between Hammerite Direct To Galvanised Metal Paint and zinc (formation of fatty acid soaps)	This is inevitable but thorough surface preparation (degrease and abrade) and the selection of alkyd for this product maximises the adhesive strength of the product. Prolonged performance will result from the use of Hammerite Special Metals Primer
Flaws in the painted substrate (scratches etc.) allowing water to get under the dry paint film, encouraging lifting of the paint	Thorough surface preparation will prevent the product coming off in sheets where this does occur. This is more likely when water is allowed to stand or pool on the surface. This product should not be recommended for high risk surfaces (flat roofs must be avoided)

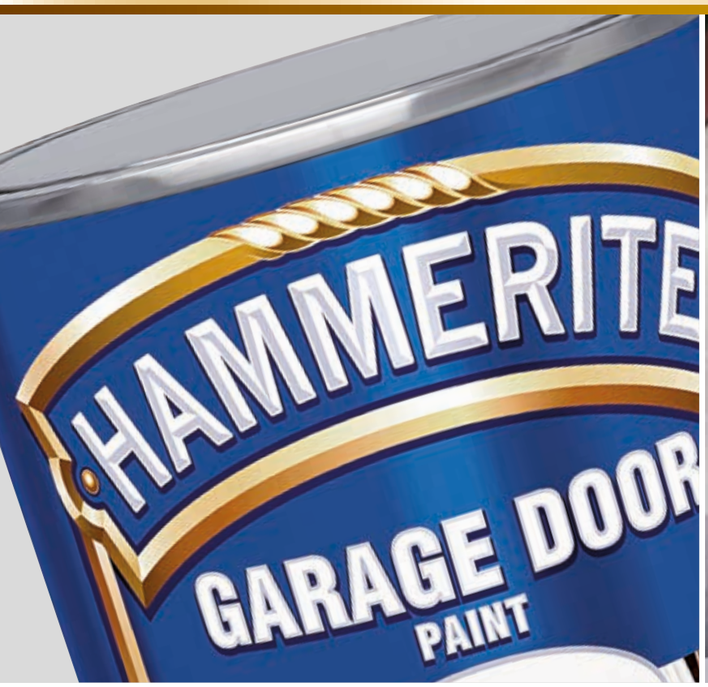
SERVICE LIMITATIONS

- Not suitable for use on equipment which may operate at 80°C (180°F) or above
- Not suitable for use in contact with drinking water or foodstuffs
- Not suitable for permanent immersion

VOC LEVEL

Hammerite conforms to EU Directive 2004/42/CE for VOC. The products shown above are classified as Category A/i 500g/l(2010). The product contains maximum of 499 g/l.

HAMMERITE GARAGE DOOR PAINT



Hammerite Garage Door Paint is specially formulated for use on metal and wooden doors; it provides a beautiful gloss finish that's highly resistant to flaking and discolouration.

USE

As a decorative and protective coating for metal and wooden garage doors.

APPEARANCE

High Gloss.

COLOUR RANGE

See Hammerite Colour and Product Guide or back cover of this brochure.

SUBSTRATE

Primarily ferrous metal. It can be used on galvanised and aluminium substrates if they are first primed with Hammerite Special Metals Primer and wood if a preservative primer is applied first.

SURFACE PREPARATION

- Remove rust and loose paint with a wire brush or coarse sandpaper. Wash down thoroughly with Hammerite Brush Cleaner & Thinners or diluted detergent (preferred option) to remove surface contaminants and soluble salts
- Rinse with clean water
- Allow to dry
- For best results on bare galvanised metal or aluminium surfaces, apply 1 coat of Hammerite Special Metals Primer and on rusted metal surfaces apply 1-2 coats of Hammerite No1 Rust Beater

If severely rusted, remove rust using Hammerite Kurust to improve the durability and appearance of the surface.

RECOMMENDED FILM THICKNESS

- Minimum 125 microns wet
- Minimum 60 microns dry

NOTE: The number of coats required to achieve this will vary depending on the substrate and method of application.

COVERING CAPACITY

Up to 8m² per can.

APPLICATION CONDITIONS

Ideal application conditions

- **Temperature range:** 8-25°C (46-77°F)
- **Maximum relative humidity:** 85%

APPLICATION METHODS

- **BRUSH OR ROLLER:**
  For best results apply 2 coats. Apply second coat after 16 hours.

NOTE: If applying over a previous coating that is in good condition then one coat is usually sufficient.

DRYING TIME

- **Touch Dry:** 4-6 hours
- **Tack Free:** 8-12 hours
- **Recoat:** 16 hours

CLEANING EQUIPMENT

After use clean equipment with Hammerite Brush Cleaner and Thinners.

NOTE: Do NOT use cellulose thinners.

SHELF LIFE AND STORAGE CONDITIONS

Storage

- Store in a dry, well-ventilated area
- Protect from extremes of temperature, frost and strong sunlight

Shelf life

Minimum 2 years at 21°C (70°F) stored in original, unopened container.

For safe disposal

Remove as much product as possible from brushes, rollers and equipment before washing. Some local authorities have special facilities for disposing of waste products. Do not empty into drains and watercourses.

CORROSION RESISTANCE

Excellent corrosion resistance when preparation instructions are followed.

IMPACT RESISTANCE

Extra tough and durable to resist knocks and scratches.

ADHESION

Excellent adhesion to ferrous metal when preparation instructions are followed.

CHEMICAL RESISTANCE

Resists splashing by dilute acids/alkalis, petrol and diesel when fully cured.

TEMPERATURE RESISTANCE

Withstands minimum temperatures of -20°C (-4°F). Hammerite Garage Door Paint withstands intermittent maximum temperatures of 150°C (300°F) when fully cured. It can withstand 80°C (180°F) continuous heat once fully cured.

NOTE: Colours may fade after prolonged exposure at temperatures exceeding 50°C (120°F).

UV RESISTANCE

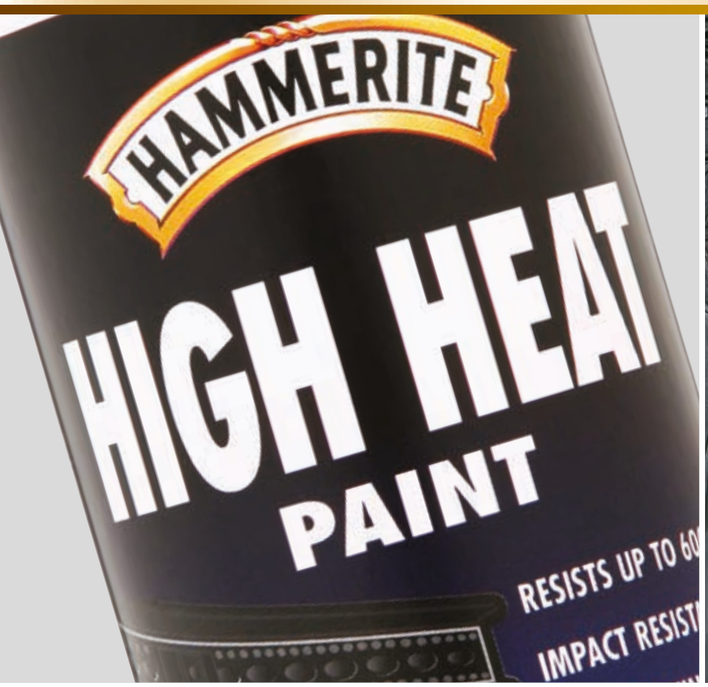
Hammerite will resist the effects of UV damage. Longevity could be reduced in hot climates or south-facing aspects where extremes of UV levels and temperature are present.

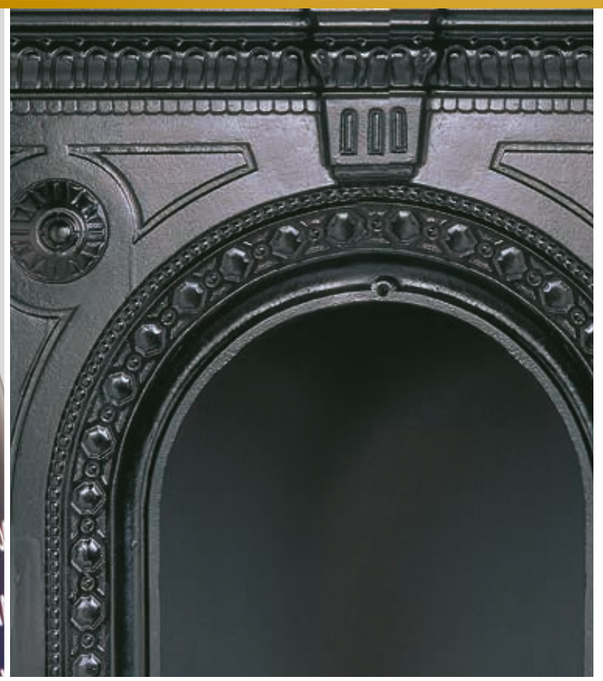
NOTE: All decorative alkyd based paints will fade or chalk when exposed to heat and UV radiation.

VOC LEVEL

Hammerite conforms to EU Directive 2004/42/CE for VOC. The products shown above are classified as Category A/d 300 g/l (2010). The product contains maximum of 299 g/l.

HAMMERITE HIGH HEAT PAINT





Hammerite High Heat Paint is specially developed to withstand temperatures up to 600°C making it ideal for fire-surrounds, guards and boilers.

USE

A heat resistant decorative coating for fire-surrounds, guards and boilers.

COLOUR RANGE

Matt black.

SUBSTRATE

Can be used on all ferrous metals particularly those subject to high temperatures.

SURFACE PREPARATION

Ensure the metal surface is cool before and during painting. Remove rust and loose paint with a wire brush or coarse sandpaper. Wash down thoroughly with Hammerite Brush Cleaner & Thinners or diluted detergent (preferred option) to remove surface contaminants and soluble salts.

- Rinse with clean water
- Allow to dry

RECOMMENDED SYSTEM

Apply three coats of Hammerite High Heat Paint.

COVERING CAPACITY

One 400ml aerosol covers up to 0.5 m²

APPLICATION CONDITIONS

- **Temperature range:** 8-25°C (46-77°F)
- **Maximum relative humidity:** 85%

APPLICATION METHODS

- Store aerosol at room temperature for two hours prior to use
- Shake can vigorously, in a vertical motion, for 3 minutes AFTER the agitator ball is first heard
- Apply light even coats from a distance of approximately 25-30 cm. To avoid runs and sags keep the aerosol moving. Do not concentrate the spray in any one spot
- Apply 3 coats for maximum protection and allow 15 minutes between coats
- Ensure adequate ventilation during application and drying

NOTE: To avoid blockages, invert the can and then spray for 2 seconds between coats and after use.

Once dry ensure product is fully cured by exposing it to temperatures between 120°C - 600°C for 1 hour.

DRYING TIME

- **Recoat:** 15 minutes
- **Touch dry:** 30 minutes

CLEANING

Protect surrounding areas from overspray. Hammerite Brush Cleaner & Thinners can be used to spot clean small spills but take care that it does not damage the substrate first (i.e. do not use on painted surfaces).

SHELF LIFE AND STORAGE CONDITIONS

Aerosol

Minimum two years at 21°C (70°F) in original unopened container. Pressurised container - protect from sunlight and do not expose to temperatures exceeding 50°C (120°F). Do not pierce or burn even after use.

For safe disposal

Some local authorities have special facilities for disposing of waste products. Do not empty into drains and watercourses.

CORROSION RESISTANCE

Excellent corrosion resistance when preparation and application instructions are followed.

IMPACT RESISTANCE

Extra tough and durable to resist knocks and scratches.

ADHESION

Excellent adhesion to ferrous metal when preparation instructions are followed.

CHEMICAL RESISTANCE

Resists splashing by dilute acids/alkalis, petrol and diesel when fully cured.

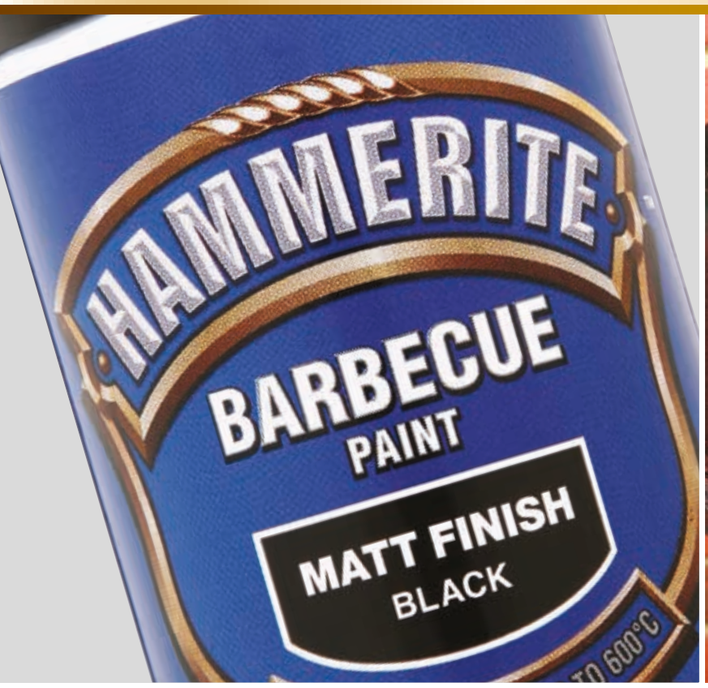
TEMPERATURE RESISTANCE

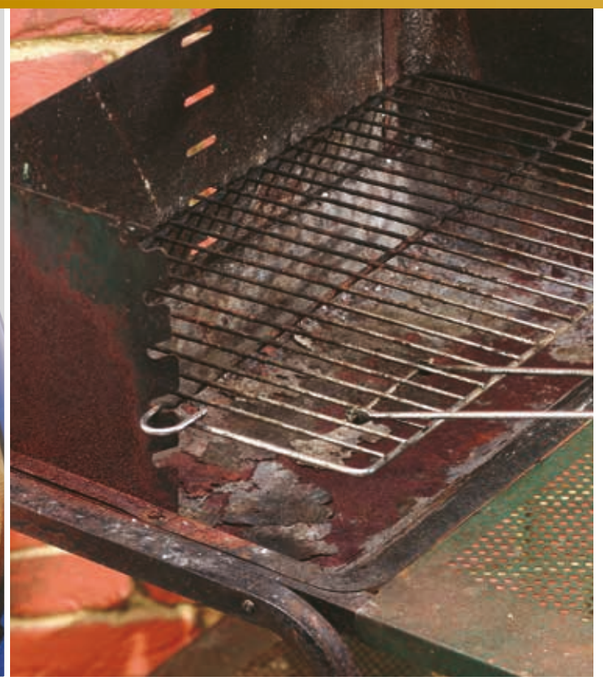
Hammerite High Heat Paint has been specially formulated to withstand temperatures of up to 600°C.

VOC LEVEL

Out of scope of the EU Directive 2004/42/CE for VOC.

HAMMERITE BARBECUE PAINT





Hammerite Barbecue Paint has been specially developed to revitalise and decorate barbecues.

USE

Hammerite Barbecue Paint has been specially formulated to use on the exterior of barbecues. It is durable, heat-resistant and offers a protective finish.

COLOUR RANGE

Matt black.

SUBSTRATE

Specially designed for use on ferrous barbecues.

SURFACE PREPARATION

Ensure the barbecue is cool before and during painting. Remove rust and loose paint with a wire brush or coarse sandpaper. Wash down thoroughly with Hammerite Brush Cleaner & Thinners or diluted detergent (preferred option) to remove surface contaminants and soluble salts.

- Rinse with clean water
- Allow to dry

RECOMMENDED SYSTEM

Apply three coats of Hammerite Barbecue Paint.

COVERING CAPACITY

One 400ml aerosol covers up to 0.5 m².

APPLICATION CONDITIONS

- **Temperature range:** 8-25°C (46-77°F)
- **Maximum relative humidity:** 85%

APPLICATION METHODS

- Store aerosol at room temperature for 2 hours prior to use
- Mask off surroundings areas that you do not wish to paint
- Shake can vigorously, in a vertical motion, for 3 minutes AFTER the agitator ball is first heard
- Apply 3 coats from a distance of 25-30cm, allowing 15 minutes between each coat
- Ensure adequate ventilation during application and drying
- Between coats invert the can and spray for 2 seconds to avoid blockages
- After application leave the barbecue to dry overnight. To fully cure the film, heat the barbecue to 120°C for one hour

NOTE: To avoid blockages, invert the can and then spray for 2 seconds between coats and after use.

DRYING TIME

- **Recoat:** 15 minutes
- **Touch dry:** 30 minutes

CLEANING

Protect surrounding areas from overspray. Hammerite Brush Cleaner & Thinners can be used to spot clean small spills but take care that it does not damage the substrate first (i.e. do not use on painted surfaces).

SHELF LIFE AND STORAGE CONDITIONS

Aerosol

Minimum two years at 21°C (70°F) in original unopened container. Pressurised container - protect from sunlight and do not expose to temperatures exceeding 50°C (120°F). Do not pierce or burn even after use.

For safe disposal

Some local authorities have special facilities for disposing of waste products. Do not empty into drains and watercourses.

CORROSION RESISTANCE

Excellent corrosion resistance when preparation and application instructions are followed.

IMPACT RESISTANCE

Tough and durable to resist knocks and scratches. Can be scrubbed clean.

ADHESION

Excellent adhesion to ferrous metal when preparation instructions are followed.

CHEMICAL RESISTANCE

Resists splashing by dilute acids/alkalis, petrol and diesel when fully cured.

TEMPERATURE RESISTANCE

Hammerite Barbecue Paint has been specially formulated to withstand temperatures up to 600°C.

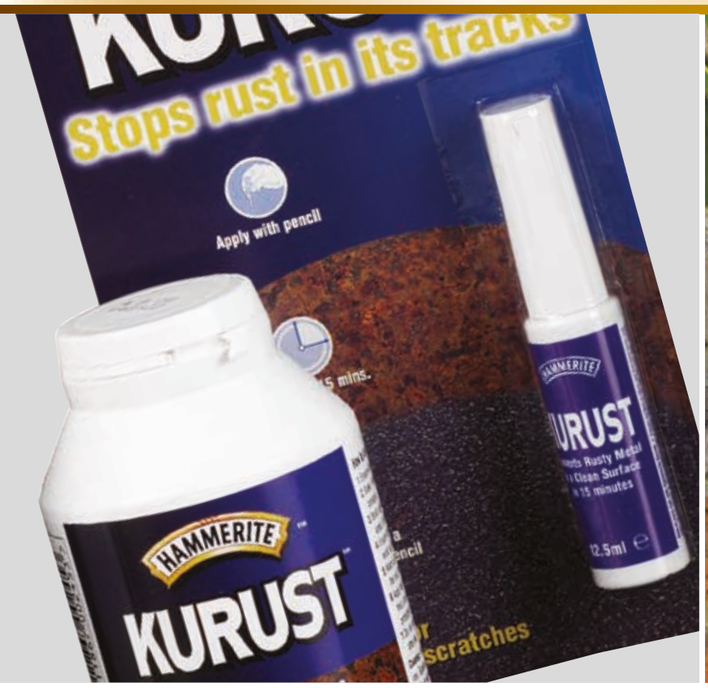
SERVICE LIMITATIONS

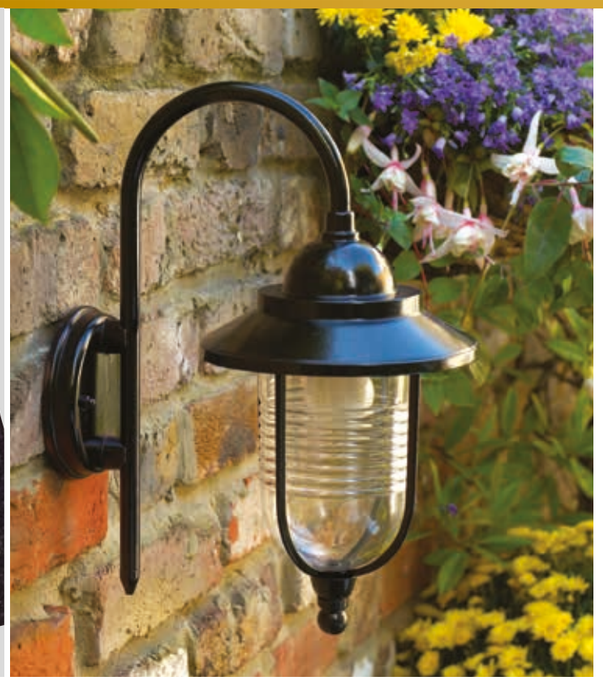
Cannot be used on the inside of a barbecue.

VOC LEVEL

Out of scope of the EU Directive 2004/42/CE for VOC.

HAMMERITE KURUST





Ideal for small areas of rust, stone chips and scratches, Hammerite Kurust transforms rust to a sound surface in 15 minutes.

USE

One coat water-based rust converter.

Stabilises and converts rust into insoluble metallo-organic complexes. Primes surface ready for application of undercoat/topcoat.

Typical applications: car bodywork, machinery, railings, and structural steelwork.

APPEARANCE

White fluid turns blue/black on reaction with rust.

SUBSTRATE

For rusted metal surfaces.

SURFACE PREPARATION

Special precautions should be taken to avoid inhalation of dust during surface preparation of pre-1960's paint surfaces over wood and metal as they may contain harmful lead.

- Ensure surface is dry and free from loose rust, paint, oil and grease
- Rinse with clean water
- Allow time to dry

In industrial/coastal environments:

- Soluble salts are likely to contaminate the substrates
- To remove these, scrub and rinse repeatedly with clean water before using Hammerite Kurust

COVERING CAPACITY

Approximately 20-25 m²/L.

APPLICATION CONDITIONS

- **Temperature range:** 8-30°C (46-86°F)

APPLICATION METHODS

BRUSH

- Shake container well
- Pour suitable quantity of Hammerite Kurust into a plastic container
- Apply 1 coat directly onto rusted metal
- Work well into pitted areas
- Thoroughly treat and protect exposed corners and edges to avoid rust creep beneath protected area

NOTE: If treated area does not change colour, re-apply within 1 hour.

WARNING: Do not return unused Hammerite Kurust to storage container.

- Apply topcoat after 3-4 hours

NOTE: Can stain paintwork and skin: accidental splashes should be washed off immediately with water.

DRYING TIME

Under good drying conditions:

- **Touch dry:** 15-30 minutes
- **Overcoatable:** 3-4 hours

CLEANING

After use, remove as much product as possible from brushes, rollers and equipment before cleaning with water.

SHELF LIFE AND STORAGE CONDITIONS

Storage

- Store in a dry, well-ventilated area
- Protect from extremes of temperature, frost and strong sunlight

Shelf life

Minimum 2 years at 21°C (70°F) stored in original, unopened container.

For safe disposal

Some local authorities have special facilities for disposing of waste product. Do not empty into drains and watercourses.

SERVICE LIMITATIONS

NOT suitable for:

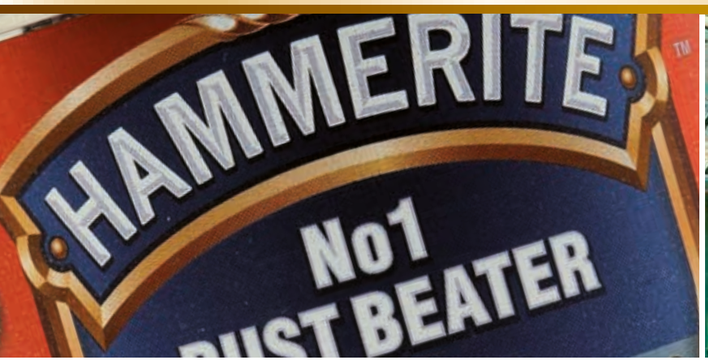
- Use on equipment operating at or above 150°C (302°F)
- Contact with potable water/foodstuffs
- Permanent immersion
- Use on non-ferrous metals

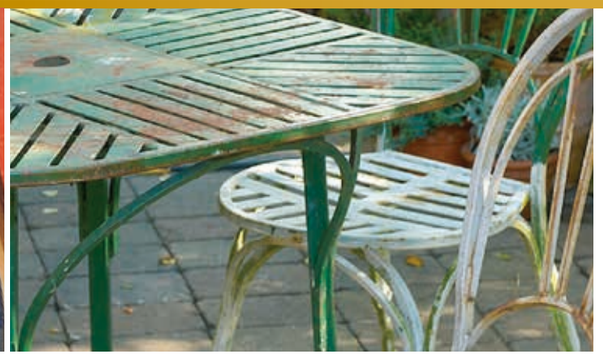
Not a holding primer: Hammerite Kurust must be protected by a suitable paint system within 48 hours of application.

VOC LEVEL

Out of scope of the EU Directive 2004/42/CE for VOC.

HAMMERITE No1 RUST BEATER





Ideal for heavily rusted areas, Hammerite No1 Rust Beater kills rust, primes and undercoats all in one.

USE

An anti-corrosive rust-stabilising primer for direct application to bare and rusty steel. It penetrates and stabilises existing rust and creates a barrier to prevent further rust. It helps level rough and profiled surfaces.

COLOUR

Brown.

SUBSTRATE

For rusted metal surfaces and bare ferrous surfaces.

SURFACE PREPARATION

Special preparations should be taken to avoid inhalation of dust during surface preparation of pre-1960's paint surface over wood and metal as they may contain harmful lead:

- Ensure surface is dry and free from loose rust, paint, oil and grease
- Degrease bare metal with Hammerite Brush Cleaner & Thinners

RECOMMENDED FILM THICKNESS

- Minimum 80 microns wet
- Minimum 50 microns dry

NOTE: The number of coats required to achieve this will vary depending on the substrate and method of application.

COVERING CAPACITY

Brush: Up to 12 m²/L per coat
Aerosol: Up to 0.5 m² per 400ml can

APPLICATION CONDITIONS

- **Temperature range:** 8-25°C (46-77°F)
- **Maximum relative humidity:** 85%

APPLICATION METHODS

BRUSH - Suitable for small flat areas and intricate wrought ironwork.

- Stir before use
- Apply 1-2 coats, allowing minimum 4 hours between coats
- Ensure corners and edges are well covered
- Apply topcoat after minimum 4 hours

NOTE: for best results, 24 hours should be allowed before application of topcoat.

ROLLER - Suitable for large flat surfaces.

- Normally thinning is not necessary, but if preferred thin with Hammerite Brush Cleaner & Thinners up to a maximum of 9 parts paint to 1 part Thinners.

NOTE: Do NOT use cellulose thinners.

- Apply 2 coats, using a short pile mohair roller allowing 4 hours between each coat.
- Brush in edges and corners first, before quickly covering remaining area with roller.

NOTE: Other types of roller may be unsuitable - check for compatibility.

- Apply topcoat after a minimum 4 hours. For best results allow 24 hours before application of topcoat.

AEROSOL - Suitable for touch-ups/small applications.

- Store at room temperature for 2 hours prior to use
- Shake can vigorously, in a vertical motion, for 3 minutes AFTER the agitator ball is first heard
- Apply a thin coat from approximately 25cm using a vertical rather than horizontal motion. Allow to dry
- Apply 2-3 coats from a distance of approximately 25cm allowing 15-30 minutes between coats
- Keep aerosol moving to avoid runs and sags (do not concentrate spray on one spot)
- Apply topcoat after minimum 4 hours

NOTE: To avoid blockages, invert the can and then spray for 2 seconds between coats and after final use.

SPRAY - Suitable for large, flat and uneven surfaces.

For both conventional spray and airless spray

- Shake spray gun before and during use to ensure an even colour
- For best results use Hammerite Brush Cleaner & Thinners to thin the paint
- Apply mist coat and allow to dry (15-30 minutes)
- Apply further 2 coats allowing 15-30 minutes between coats
- Apply topcoat after minimum 4 hours. For best results allow 24 hours before application of topcoat

NOTE: Do NOT use cellulose thinners.

Conventional spray

- Thin Hammerite No1 Rust Beater with 10% Hammerite Brush Cleaner & Thinners
- Set professional spray gun to between 25/35 psi (approximately 2 Bar)
- Use a full fan spray at maximum spray volume
- Apply 3-4 thin coats allowing approximately 30-60 minutes between coats. Do not leave too long between coats as this could lead to wrinkles forming. The final coat should be sprayed heavily enough to flow to a glossy finish avoiding runs and sags
- Apply topcoat after minimum 4 hours
- For best results allow 24 hours before application of topcoat

NOTE: Do NOT use cellulose thinners

Airless spray

If necessary thin with 15% Hammerite Brush Cleaner & Thinners.

- Fluid pressure: 2500 - 3000 psi (approximately 170 Bar)
- Nozzle size: 375-500 microns/0.015 - 0.020"
- Apply 2-3 coats, leaving each coat for approximately 1 hour or until it is touch dry before applying further coats

NOTE: Do NOT use cellulose thinners

DRYING TIME

Drying times when applied by brush or roller (under good drying conditions)

- Touch / Surface dry: 1 hour
- Tack free: 3 hours
- Recoat (with itself/other alkyds): 4 hours

CLEANING

After use, remove as much paint as possible from brushes, rollers and equipment before cleaning. Clean equipment with Hammerite Brush Cleaner & Thinners.

NOTE: Do NOT use cellulose thinners.

SHELF LIFE AND STORAGE CONDITIONS

Storage

- Store in a dry, well ventilated area
- Protect from extremes of temperature, frost and strong sunlight

Shelf life

Tins: Minimum 2 years at 21°C (70°F) stored in original, unopened container.

Aerosol: Minimum 2 years at 21°C (70°F) stored in original, unused container.

For the aerosol (pressurised container):

- Protect from strong sunlight
- Do not expose to temperatures exceeding 50°C (122°F)
- Do not pierce or burn after use

For safe disposal

Some local authorities have special facilities for disposing of waste paint. Do not empty into drains and watercourses.

CORROSION RESISTANCE

Excellent corrosion resistance when application instructions are followed.

ADHESION

Excellent adhesion to ferrous substrates when application instructions are followed.

TEMPERATURE RESISTANCE

Intermittent use:
Minus 30°C (minus 22°F) up to 150°C (302°F) maximum.

Continuous use:
Recommended maximum 80°C (176°F).

SERVICE LIMITATIONS

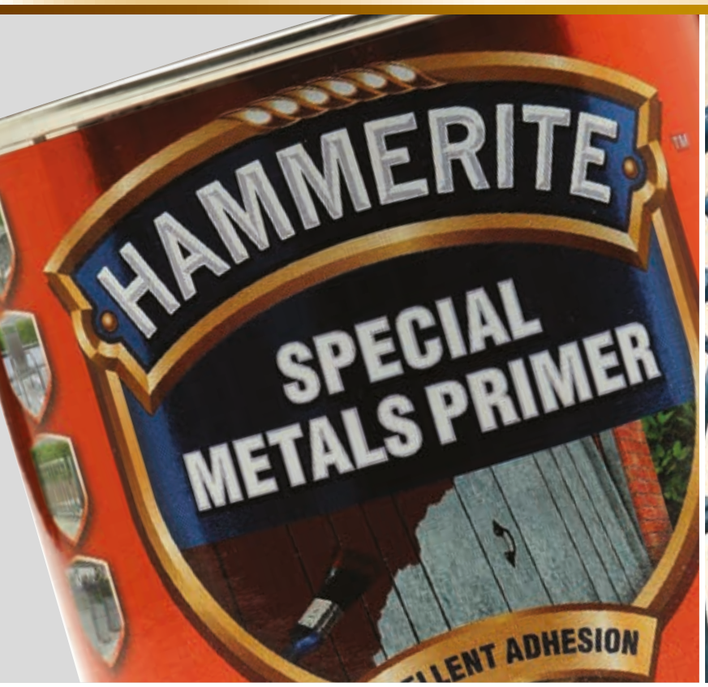
Not suitable for:

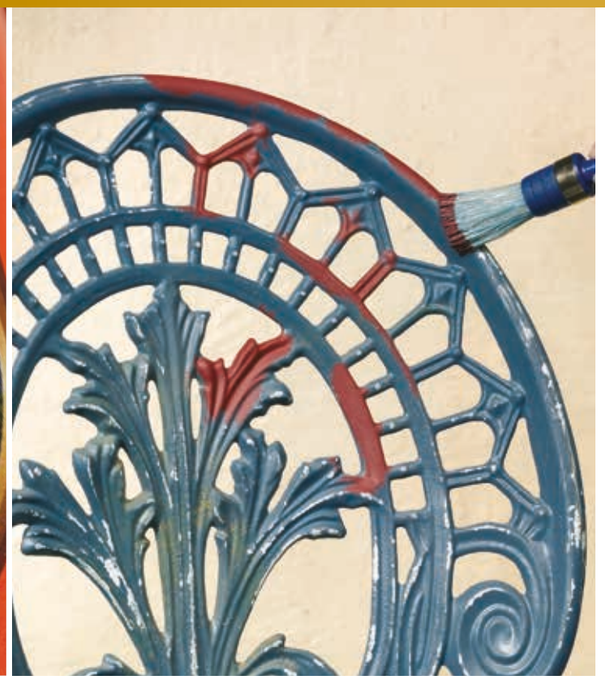
- Use on equipment operating at or above 80°C (176°F)
- Contact with potable water/foodstuffs
- Permanent immersion
- Use on non-ferrous metals

VOC LEVEL

Hammerite conforms to EU Directive 2004/42/CE for VOC. The products shown above are classified as Category A/i 500g/l (2010). The product contains maximum of 499 g/l.

HAMMERITE SPECIAL METALS PRIMER





Specially formulated to promote topcoat adhesion on non-ferrous metal surfaces such as aluminium, galvanised and stainless steel, chrome, brass and copper.

USE

A water-based primer to promote adhesion of the topcoat on typically shiny, smooth non-ferrous metal surfaces.

APPEARANCE

Red liquid.

SUBSTRATE

Can be applied on bare metal surfaces, painted metal surfaces, smooth metal surfaces, unpainted galvanised/aluminium /non-ferrous metal surfaces.

SURFACE PREPARATION

Special precautions should be taken to avoid inhalation of dust during surface preparation of pre-1960's paint surfaces over wood and metal as they may contain harmful lead.

- Ensure surface is clean and free from dirt, grease, oil and salt
- For degreasing, use a detergent solution or Hammerite Brush Cleaner & Thinners.
- Rinse thoroughly with clean water and allow to dry
- Remove any loose paint or rust with a wire brush or emery paper
- Patch prime any rusty areas with Hammerite Kurust

RECOMMENDED FILM THICKNESS

- Minimum 60 microns wet
- Minimum 30 microns dry

NOTE: Normally applied in 1 coat.

COVERING CAPACITY

Brush: Up to 16 m²/L.

APPLICATION CONDITIONS

- **Temperature range:** 8-30°C (46-86°F)
- **Maximum relative humidity:** 85%

APPLICATION METHODS

BRUSH:
- Stir before use
- Apply one coat
- Apply a suitable topcoat after 2 hours

CONVENTIONAL SPRAY:
- No thinning required
- Recommended pressure; 25-35psi (approximately 2 bar)
- Apply one coat

DRYING TIME

Under good drying conditions:
- **Touch dry/tack free:** 30-60 minutes
- **Overcoatable:** 2 hours

CLEANING

After use, remove as much paint as possible from brushes and equipment before washing. Clean with water.

SHELF LIFE AND STORAGE CONDITIONS

Storage
- Store in a dry, well-ventilated area
- Protect from extremes of temperature, frost and strong sunlight

Shelf life

Minimum 2 years at 21°C (70°F) stored in original, unopened container.

For safe disposal

Some local authorities have special facilities for disposing of waste paint. Do not empty into drains and watercourses.

ADHESION

Excellent adhesion to non-ferrous metal when preparation instructions are followed.

TEMPERATURE RESISTANCE

Intermittent use:
Minus 30°C (minus 22°F) up to 150°C (302°F) maximum.

Continuous use:
Recommended maximum 80°C (176°F).

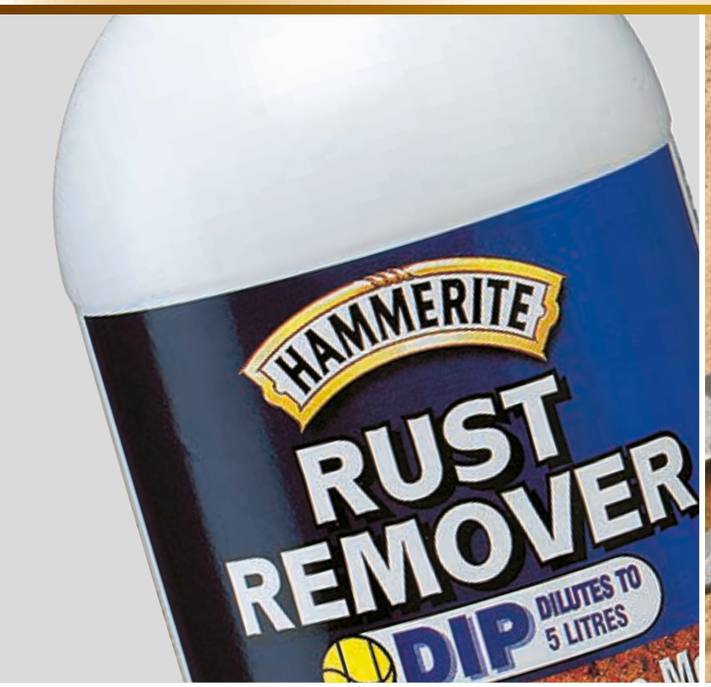
SERVICE LIMITATIONS

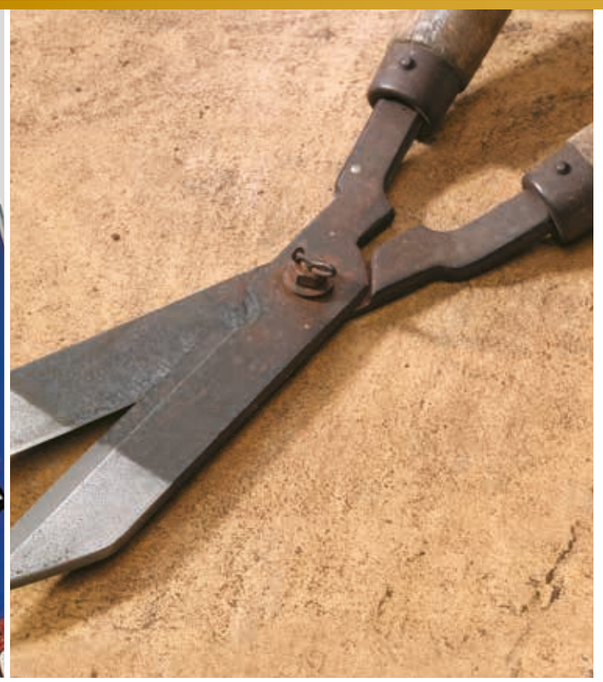
Not suitable for
- Use on equipment operating at or above 80°C (176°F)
- Contact with potable water/foodstuffs
- Permanent immersion

VOC LEVEL

Hammerite conforms to EU Directive 2004/42/CE for VOC. The products shown above are classified as Category A/i 140g/l (2010). The product contains maximum of 20 g/l.

HAMMERITE RUST REMOVER DIP





Specially developed for the safe and effective removal of rust, Hammerite Rust Remover Dip is designed to immerse rusty items, such as nuts, bolts and garden tools, and can remove rust in as little as 2-3 hours.

USE

Water-based surface treatment specially formulated for the safe and effective removal of rust from car parts, nuts, bolts, garden tools and other ferrous metal objects.

APPEARANCE

Green liquid.

SUBSTRATE

Rusted metal surfaces.

SURFACE PREPARATION

- Use a wire brush or coarse abrasive paper to remove loose rust
- Remove oil and grease contamination using Hammerite Brush Cleaner & Thinners

APPLICATION CONDITIONS

- **Temperature range:** 8-30°C (46-86°F)

APPLICATION METHODS

DILUTED RUST REMOVER

- Shake the container well and pour the required amount into a sufficiently large plastic container
- Dilute 1 part Hammerite Rust Remover Dip with 9 parts water and mix thoroughly
- Immerse the rusty item in the solution overnight
- Remove and rinse thoroughly under running water using a wire brush or coarse abrasive paper to remove any residual rust. If the rust has not been completely removed repeat procedure and leave for 24 hours
- Leave to dry and overcoat with a suitable Hammerite product

NOTE: Do NOT return any surplus Hammerite Rust Remover Dip to the original container after use.

For heavy or stubborn rust deposits, use Hammerite Rust Remover Dip without dilution.

UNDILUTED RUST REMOVER:

- Shake the container well and pour the required amount into a plastic container
- Immerse the rusty item overnight or until the rust has dissolved, whichever is sooner
- Rinse in clean fresh water, abrade with a wire brush or coarse abrasive paper and dry with a clean cloth
- Leave to dry and overcoat with a suitable Hammerite product

NOTE: Do NOT return any surplus Hammerite Rust Remover Dip to the original container after use.

CLEANING

After use, remove as much product as possible from equipment before cleaning. Clean equipment with water.

SHELF LIFE AND STORAGE CONDITIONS

Storage

- Store in a dry, well-ventilated area
- Protect from extremes of temperature, frost and strong sunlight

Shelf life

Minimum 2 years at 21°C (70°F) stored in original, unopened container.

For safe disposal

Some local authorities have special facilities for disposing of waste product. Do not empty into drains and watercourses.

SERVICE LIMITATIONS

NOT suitable for direct contact with non-ferrous metals or galvanised surfaces.

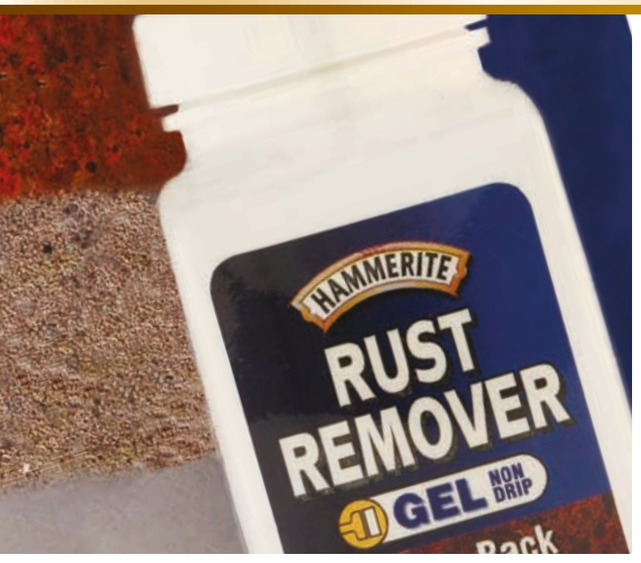
NOTE: Hammerite Rust Remover Dip will strip galvanising from metal objects.

VOC LEVEL

Out of scope of the EU Directive 2004/42/CE for VOC.

DISCLAIMER

HAMMERITE RUST REMOVER GEL



Hammerite Rust Remover Gel is specially developed for the safe and effective removal of rust from vertical and intricate metal items. The non-drip formulation is ideal for vertical surfaces, and removes rust in 2-3 hours.

USE

A water-based surface treatment specially formulated for the safe and effective removal of rust from car parts, nuts, bolts, garden tools and other ferrous metal objects.

It is particularly useful for larger/heavier items which cannot readily be immersed in Hammerite Rust Remover Dip.

APPEARANCE

Transparent green gel.

SUBSTRATE

For rusted metal surfaces.

SURFACE PREPARATION

Use a wire brush or coarse abrasive paper to remove loose rust.

COVERING CAPACITY

Approximately 0.5-1.0 m²/L depending upon surface roughness and geometry.

APPLICATION METHODS

- After using a wire brush to remove all loose rust, brush apply the Hammerite Rust Remover Gel liberally onto the rusted areas of the item to be cleaned
- Work the gel into the surface to give an overall coating thickness of approximately 1.0-1.5mm
- Allow to stand for 15-20 minutes, then repeat the surface brush working procedure, using more gel if required to maintain the necessary gel layer thickness
- Repeat surface brush working with additional gel as necessary at 30 minute intervals for a period of 2-3 hours, before thoroughly washing clean with running water, using a wire brush to assist
- If the rust has not been completely removed, repeat the gel application process as needed, before finally washing and allowing to dry
- Overcoat with a suitable Hammerite product

NOTE: Hammerite Rust Remover Gel must be removed by washing with water before being over coated with a suitable paint system.

CLEANING

Remove as much product as possible from brushes and equipment before washing. Thoroughly clean with water after use.

SHELF LIFE AND STORAGE CONDITIONS

Storage

- Store in a dry, well-ventilated area
- Protect from extremes of temperature, frost and strong sunlight

Shelf life

Minimum 2 years at 21°C (70°F) stored in original, unopened container.

For safe disposal

Some local authorities have special facilities for disposing of waste products. Do not empty into drains and watercourses.

SERVICE LIMITATIONS

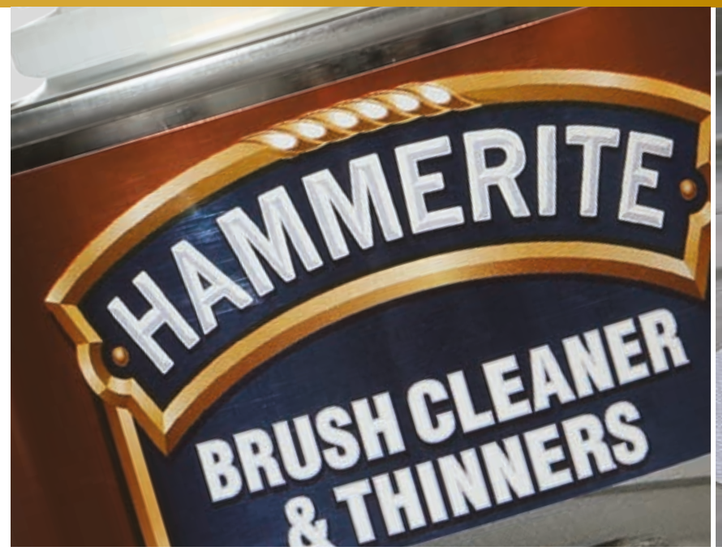
NOT suitable for direct contact with non-ferrous metals or galvanised surfaces.

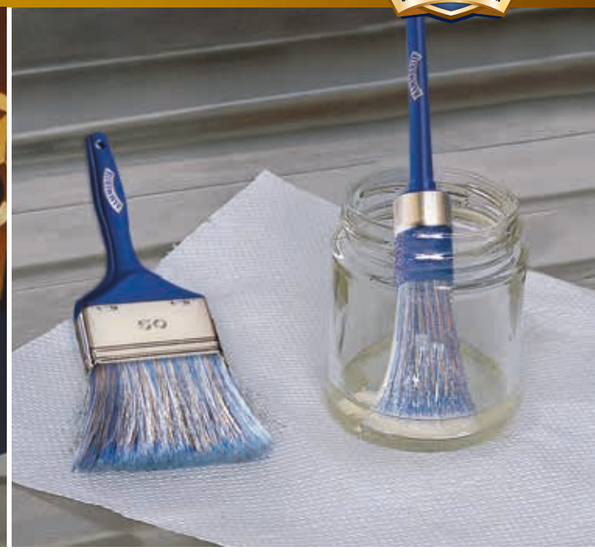
NOTE: Hammerite Rust Remover Gel will strip galvanising from metal objects.

VOC LEVEL

Out of scope of the EU Directive 2004/42/CE for VOC.

HAMMERITE BRUSH CLEANER & THINNERS





Due to the unique formulation of Hammerite paints, brushes and equipment should be cleaned with Hammerite Brush Cleaner & Thinners. As well as cleaning brushes and equipment it will remove dirt, grime, salt and loose rust from metal surfaces. It is also excellent for thinning Hammerite paints for spray and roller application.

USE

Hammerite Brush Cleaner & Thinners uses a blend of solvents to dilute and thin the unique Hammerite Direct To Rust Metal Paint formulation and for cleaning application equipment.

APPEARANCE

Clear liquid.

SHELF LIFE AND STORAGE CONDITIONS

Minimum two years at 21°C (70°F) stored in original unopened container. Hammerite Brush Cleaner & Thinners should be stored in a dry, well ventilated area. Protect from extremes of temperature, frost and strong sunlight.

SERVICE LIMITATIONS

Check if intended product can be thinned before use. Not suitable for water-based products.

VOC LEVEL

Out of scope of the EU Directive 2004/42/CE for VOC.

THINNING PAINT FOR SPRAYING

Always follow product specific guidance. However, a general guide is given below.

For both conventional spray and airless spray

- Shake spray gun before and during use to ensure an even colour
- For best results use Hammerite Brush Cleaner & Thinners to thin the paint

Conventional spray

- Thin Hammerite Direct To Rust with 15% Hammerite Brush Cleaner & Thinners
- Set professional spray gun to between 25/35 psi (approximately 2 Bar)
- Use a full fan spray at maximum spray volume
- Apply 3-4 thin coats in quick succession allowing approximately 1 hour between coats. Thin coats are generally better, but the final coat should be sprayed heavily enough to flow to a glossy finish avoiding runs and sags

Airless spray

- If necessary thin Hammerite Direct To Rust with 15% Hammerite Brush Cleaner & Thinners
- Fluid pressure: 2500-3000 psi (approximately 170 Bar)
- Nozzle size: 375-500 microns/0.015-0.020”

See page 5 for further spraying guidelines