

General paint specifications



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- Available in Flat, Eggshell, Melamine, Flat for Ceilings and Primer-sealer

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SICO®
WALL TO WALL CONFIDENCE™

With this 2016 edition of its General paint specifications manual, SICO® achieves one of its main objectives, which is to update architects with the very latest developments in the paint and coatings industry.

General specifications as well as the paint selection chart have been completely revised in order to reflect these changes.

You will find in this 2016 edition updates reflecting the changes from a product stand point. We have also updated our MPI™ certification chart with our current certifications.

Our ECOSOURCE® products, compliant with GREEN SEAL™ GS-11 certification standards, reassert our position in sustainability, reducing our environmental footprint. This compliance allows *Ecosource* to satisfy the stringent requirements of LEED® (2009) certified projects.

The Sico team

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Our products



SICO ECOSOURCE

Ecosource paints are formulated to offer exceptional results with minimum impact on the environment. Compliant with *Green Seal* GS-11 certification standards, *Ecosource* products are formulated without volatile organic compounds before colourant is added (zero VOC). VOCs are the main compounds responsible for increased atmospheric pollution. *Ecosource* is the ideal choice for product specifiers who want both professional results and a reduced environmental footprint. *Ecosource* paints also meet the requirements of LEED® certified projects (2009).



SICO EXPERT™

An industry favourite, *Sico Expert* was developed with professional painters in mind. A renowned line of durable coatings formulated for various applications, *Sico Expert* offers performance-oriented solutions for all kinds of projects. In addition to architectural products, *Sico Expert* offers a range of specialized formulas, such as anti-rust paints, interior and exterior wood stains and more. Professionals looking for quality and reliability know they can count on *Sico Expert*.



MUSE™

Sico Muse is our most sophisticated paint yet. Featuring unique TOUCH RESIST TECHNOLOGY™, it provides your colours with longer lasting richness and depth. This 100% acrylic two-in-one interior paint combines a primer and paint that is mildew resistant on the paint film to ensure greater durability. With two finishes – soft matte and soft gloss – you can enjoy more freedom with your creative projects, taking your most sumptuous ideas all the way.

General specifications

1. General conditions

The general conditions for the project apply to the contract and the painting contractor shall read all its requirements carefully.

The contractor agrees to protect the owner or the architect from claims or liens by maintaining sufficient insurance to cover accidents and damages caused by or arising from the performance of his work.

2. Estimates

The contractor shall examine all plans, architectural drawings and specifications and understand all the conditions related to his work or concerning the application of the specified materials. He shall also examine all plans and specifications concerning the subcontractors to estimate all the finishing work required.

Further claims will not be allowed for work omitted in the contractor's estimate through neglect or lack of examination or coordination of all painting work. No payment over the amount agreed upon in the contract will be granted to the contractor unless a written authorization is made by the architect or his representative.

3. Scope of work

The specifications include the execution of all painting, staining, varnishing and other finishing coats of interior and exterior surfaces that appear in the plans, in the finishing schedule or in the present specifications manual. It shall include and cover any labour, material, equipment, tool, accessory, transportation and maintenance required for the completion of all work required by the plans and specifications.

Copper, aluminium, bronze, stainless steel, brass and nickel shall not be painted unless otherwise specified; neither shall doors, partitions, frames, railings and other articles with a factory finish. Rubber, asphalt and vinyl coverings for floors shall not be painted.

4. Materials

All the required materials shall meet the specifications and be of first quality. All paints shall be delivered in sealed cans bearing the original label of the manufacturer intact. All non-specified but required materials shall be of a well-known brand and be approved by the architect.

Colours of the finishing paints shall be chosen or approved by the architect and he shall submit samples to the contractor. The architect can ask to receive standard samples of finishes or colours on specified materials for approbation.

5. Storage and inspection

Materials shall be delivered to the site early enough and in such quantities as to avoid delays in the progress of painting.

Materials are subject to inspection at all times and the architect has the right to have them analyzed. Should they prove different from the requirements of the present specification, they shall be removed promptly from the site and be replaced with the specified materials without fees to the owner.

The owner or the architect shall assign at the site a space or shed suitable for the storage of the materials (min. 10 °C (50 °F), max. 26 °C (80 °F)). The contractor shall maintain this locked accommodation in good condition and take the necessary precautions against fire hazards.

6. Examination of surfaces

The contractor shall inspect all surfaces to be painted before starting to paint. When surfaces with normal preparation are considered unsatisfactory for paint application, the contractor shall notify in writing the architect or the general contractor of the situation.

Starting of the painting task implies approval without reserve of the surfaces and the contractor will be responsible for the appearance of the finish if it is not satisfactory.

7. Surface preparation

Refer to MPI standards for any large-scale project. Paint application shall not be started when the surfaces to be painted have not been properly prepared. All surfaces must be structurally sound, dry, clean, free from dust, grease, oil, rust, loose paint or all contaminants likely to affect the adhesion and the appearance of paint finishes.

Surfaces previously painted with latex and in good condition do not usually require priming, but should be sanded with sandpaper if glossy.

Dust and dirt: Wipe carefully. If dirt remains, wash and scrub with a cleaner and grease remover, then rinse well. Wash mildew with a solution of household bleach (one part household bleach to three parts of water). Wear rubber gloves and eye protection. Rinse well with clear water and let dry thoroughly.

Grease, oil, bitumen: Wash with a rag soaked with a cleaner-thinner containing mineral spirits, taking care not to spread the soiled spots over larger areas. Wipe with clean and dry rags. Repeat the cleaning operation if necessary. See section 11, Cleaning, for instructions on how to dispose of rags after use.

WOOD

A) Interior wood – Paint finish

Seal knots and sap streaks with transparent shellac. Smooth rough spots with sand paper, then dust.

B) Interior wood – Clear finish

Carefully remove all stains, pencil marks and excess glue. Iron stains may be removed with a wood bleach or with a water solution of oxalic acid (caution: poison). Sand rough spots in the grain direction. Apply the stain or sealer coat.

C) Exterior wood – Paint finish – Solid stain

Make sure the wood is perfectly dry and its moisture content below 12% when measured with a moisture metre.

Scrape resin exudations. Heat if necessary and wash with turpentine. Sand rough spots. Make sure the surface is clean and free of contaminants. Seal knots and sap streaks with transparent shellac. Then, apply GOPRIME® alkyd primer 200-135 or *GoPrime* alkyd emulsion primer 150-135 or *Sico Expert* 890-114. Putty nail holes and cracks before applying the primer. For wood treated with a preservative agent, ensure that all the solvent is evaporated.

D) Exterior wood – Semi-transparent stain

Sand rough spots. Remove stains and pencil marks either by scraping, sanding or chemical bleach (see B).

E) Concrete

Concrete must be free of any efflorescent salts or excess moisture and have cured for at least 28 days at a temperature above 20 °C (68 °F). Remove all spatters, loose sand grains and dirt by raking or brushing. Eliminate dust. Fill holes, cracks, honeycombs and other surface defects with a cement mortar and let harden.

Eliminate any trace of grease, bitumen, moulding oils or other contaminants with a cleaner and grease remover. Rinse well and let dry. Avoid cleaning concrete with solvents (they dissolve contaminants and make them further penetrate the concrete). If there are laitance or efflorescent salts, apply a muriatic acid solution or a phosphoric acid solution, letting it stand until bubbling stops on the concrete surface (15 to 20 minutes). Rinse thoroughly with clear water before surface dries. Repeat operation until concrete becomes rough. Let the surface dry. Caution: the absence of bubbling is an indication that a sealer is present on the surface and that it should be removed before application.

Highly polished concrete, tinted concrete, old concrete coated with a sealer or any other unsuitable topcoat will require Blast Track mechanical treatment before being recoated.

The presence of humidity in the concrete can hinder product adhesion and hardness. It is necessary to test the level of humidity of the concrete surface before coating application. To test the level of humidity of a previously cleaned concrete surface:

1. Let concrete dry for 24 hours after cleaning and before testing for humidity.
2. Before testing for humidity, ensure that the concrete temperature is above 15 °C (60 °F). Low temperatures slow down the migration of the humidity and give false results.
3. Test surface humidity in four or five places. Use an electrode moisture metre (humidity level must not exceed 4% of mass) or fasten plastic film with masking tape to surfaces to be tested. Plastic film must remain in place for 24 hours if the temperature is above 20 °C (68 °F), three days if the temperature range is between 5 and 20 °C (40 to 68 °F). Testing cannot be done if the temperature is lower than 5 °C (40 °F). Once required time has elapsed, check for any trace of humidity (droplets under the plastic film).
4. If no humidity is present, apply the recommended product. If humidity is found, install a sub floor that includes a moisture barrier.

BRICKS, STONES, BLOCKS AND OTHER MASONRIES

Remove all mortar splatters and foreign matters. Use a broom or stiff brush to remove salts, dust and loose aggregates.

When asbestos-cement is to be used outdoors, coat both faces of the panels to prevent water absorption, which activates alkalinity and can cause efflorescence.

F) Wallboard (gypsum board)

Surfaces must be clean, screws and nails countersunk and holes filled. Sand joints, then dust clean.

G) Plaster

Make sure the finish coat of plaster has dried and hardened at a temperature above 10 °C (50 °F), and that the room has been properly ventilated. Dry plaster should not contain more than 6% moisture, as measured with a moisture metre. Fill all cracks with patching plaster after widening them. Scrape away any grit and rough edges.

H) Metals

Iron and steel (small surfaces)

Remove rust, mill scale, welding flux and other solid contaminants with a power wire brush or sandblast (if needed). Hand cleaning with a wire brush or with emery cloth is acceptable for small work. Treat the metal with CORROSTOP® Ultra metal conditioner and rust remover 635-104. Rinse with clear water and wipe dry. Apply the anti-corrosion primer as soon as possible after cleaning the metal (as soon as the surface is dry: no more than four hours).

Iron and steel (large surfaces)

Steam blasting is recommended for the removal of grease, oil, salts, acids, alkalis and any similar chemical residue on large surfaces. To ensure maximum efficiency, steam blasting should be combined with a cleaner and grease remover.

- Surface must be completely dry and free of any residue prior to the application of coating.
- An anti-rust primer must be applied as soon as possible after the surface is cleaned and dry (maximum of four hours).

Very rusty iron and steel (large surfaces)

Sand blasting is the most efficient method for cleaning steel surfaces. This type of cleaning treatment is recommended in order to remove tartar, scaly rust and any other existing coating. Any loose paint must be scraped and sanded. Bare spots must be primed with an appropriate primer.

Certain metals and alloys require a special surface preparation.

Shop-primed steel and cast

Wash all surfaces with a cleaner-thinner containing mineral spirits to remove grease, oil, dirt and dust. If rust has appeared on areas where the primed steel and cast have been damaged, remove the rust with a wire brush or emery cloth.

Galvanized metal

Remove all oily or greasy stains with a cleaner-thinner containing mineral spirits, then clean with *Corrostop* Ultra metal conditioner 635-104 to ensure better adhesion of the paints. Apply a coat of *Corrostop* Ultra latex primer 635-045. If rust is present, it should be removed with *Corrostop* Ultra rust remover 635-104.

Note: Never use muriatic acid (hydrochloric), vinegar (acetic acid), copper sulphate or other reparations not suited for treating galvanized metal.

Aluminium and light alloys

Aluminium and aluminium base alloys exposed to corrosive environments require a protection coat.

Clean the surface with *Corrostop* Ultra cleaner and rust remover 635-104. Then, apply one coat of *Corrostop* Ultra latex primer 635-045.

Note: For GALVALUME® roofs, use *Corrostop* Ultra latex primer 635-045.

Copper, brass, bronze and stainless steel

Clean with *Corrostop* Ultra metal conditioner 635-104. No primer required: apply the finishing paint directly over the cleaned metal. Etch stainless steel with sandpaper for metal.

I) Acoustical tiles

Seal brownish stains with a shellac or *GoPrime* stain-killer, primer-sealer and undercoater 200-135 or spot prime with *GoPrime* alkyd emulsion primer 150-135 or *Sico Expert* 890-114.

J) Other materials

Ceramic, melamine, Formica®, stratified material, glass, plastics and PVC

Surfaces must be dry, clean, free from dust, dirt, grease, oil, wax and any other contaminant that could reduce the primer adhesion.

Fibreglass

A light cleaning with acetone is recommended in order to etch the surface.

Ceramic, melamine, Formica and stratified material

Sand surfaces with a grade 100 to 150 sanding paper before applying *GoPrime* alkyd emulsion primer 150-135 or *Sico Expert* 890-114. This sanding will remove any sheen and create a surface profile favourable for maximum primer adhesion.

K) Pre-finished sidings (exterior)

No primer is required on pre-finished sidings in good condition. In order to obtain best results, a good surface preparation is necessary.

Surfaces must be dry, clean, free from dust, gum, grease, oil, rust, mildew, old flaking paint or all contaminants. Sand surfaces lightly and wash with a cleaner and grease remover to remove chalking, dirt, etc. Wash mildew with a solution of household bleach (one part household bleach to three parts of water). Wear rubber gloves and eye protection. Rinse well with clear water and let dry thoroughly.

If the paint is flaking, remove all loose particles by scraping, then sand to smooth the outlines. Prime bare spots.

Pre-finished sidings (steel)

Rust must be removed with *Corrostop* Ultra metal conditioner 635-104. Rinse with clear water.

Pre-finished sidings (masonite)

Prime bare spots with *GoPrime* alkyd emulsion primer 150-135 or *Sico Expert* 890-114 or *GoPrime* latex primer 190-135.

Pre-finished sidings (galvanized metal, aluminium)

Clean bare metal with *Corrostop* Ultra metal conditioner 635-104. Rinse with clear water. Prime bare spots with *Corrostop* Ultra latex primer 635-045.

Vinyl sidings

Sand lightly and clean very well before painting. Choose colours that are similar or lighter than the original to avoid warping.

Recommended finishing

See the paint selection charts.

L) Previously painted surfaces

Previously painted surfaces must be dry, clean, free from dust, dirt, oil, grease, wax, rust or all contaminants likely to affect the adhesion of the paints (see Section 7, Surface preparation).

Loose paint

Scrape and sand. Clean very well (according to Section 7) and prime bare spots with recommended primer (see paint selection charts).

8. Workmanship

All work shall be executed with care by skilled painters. The paint shall be applied in strict accordance with the manufacturer's directions. The same brand of paint shall be used for all coats of paint.

It is the contractor's responsibility to read, understand and apply the recommendations in the technical data sheet and safety data sheet for any product, including, but not limited to, the following:

Spreading rate: Depending on the area and spreading rate, the contractor must demonstrate that he applied the amount of paint recommended by the manufacturer. The contractor may need to show, with a wet film thickness gauge, that he has properly applied the thickness recommended by the manufacturer.

Recoat time: the contractor must wait the recommended recoat time before applying the next coat of paint.

Dilution: the product should not be diluted, unless otherwise specified by the manufacturer. Do not exceed the rate recommended by the manufacturer and only use the recommended thinner.

Precaution: Dry sanding, flame cutting and/or welding of dry paint film will give rise to dust and/or hazardous fumes. Wet sanding should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used.

Before painting, remove all hardware, door and drawer handles and store them in an orderly manner. Replace them after painting is completed. Surfaces not to be painted shall be protected from paint spatters, runs or other damage resulting from paint application by using drop cloths or masking tape.

All paints shall be thoroughly mixed to a uniform consistency, leaving no deposit at the bottom of the containers. If thinning is recommended, no thinner other than the one recommended by the manufacturer shall be used.

All varnishes, paints, stains or other coatings shall be applied evenly without streaks, runs, misses, brush marks or other defects in order to obtain the specified finish and colour.

All coats of paint shall be dry before applying the finishing coat. Primers, undercoats and intermediate coats shall be sanded smooth before applying the finishing coats.

The back of woodworks and trim shall receive a primer coat before installation. The top and bottom, as well as the edges of doors and panels shall receive at least one coat of paint.

The interior of cabinets and closets shall be finished like other woodworks. The final coat on doors, windows, cabinets and other woodworks shall be applied only after they have been fitted and are ready for use.

9. Temperature

Application and drying of paints shall be done at a suitable temperature. Indoors, a temperature of at least 10 °C (50 °F) shall be maintained and adequate ventilation provided. No exterior painting shall be done when the temperature is below 10 °C (50 °F) and over 32 °C (90 °F) or in high humidity.

These guidelines apply to both room and surface temperature.

Beyond a relative humidity of 50%, the contractor must double the recommended drying and recoat time in the technical data sheet. If it is less than 10 degrees and the humidity is above 50%, we recommend quadrupling the time.

To paint, the dew point should be at least 3°C lower than the temperature of the air (or the surface). Please refer to the chart on temperature, humidity and dew point in the appendix.

10. Painting systems

Premium painting for unpainted surfaces requires a minimum of three coats: one coat of primer and two coats of finishing, not including the preparation or the treatment of surfaces when required.

Some colours conceal less than others. They are generally identified as such by the manufacturer and may require one or more additional coats of paint. A specific primer is sometimes recommended. It is the contractor's responsibility to examine the colour to plan and perform work that will provide satisfactory concealment results, within the allotted budget and schedule.

Refer to paint selection charts to determine the appropriate coating systems recommended for usual surfaces in normal service conditions. For special technical problems, contact your Sico representative who will suggest the best solution and products to meet particular requirements.

Here are some general guidelines for selecting the right finish when it comes to washability, which apply to conventional architectural latex.

The basic principle: the glossier the finish, the more washable and abrasion-resistant it is. For aesthetic reasons, however, we usually choose the most matte finish possible, with an adequate degree of washability (based on our understanding of this requirement).

For this reason, we recommend glossier paint more for the children's bedroom than a room for adults, assuming that the walls will need to be washed more often and more vigorously, and has more traffic.

If, in reality, the customer's need for washability is the same for both the children's room and the master bedroom, you can use a less glossy finish.

On the other hand, you can use a relatively matte finish in a home office. In a high-traffic business office, you can choose a slightly glossier finish.

It should be noted that, at the same gloss level, the best-quality paint provides greater washability over lower-quality alternatives.

Flat finish (0%-5%): ceilings only, unless you make sure with the manufacturer that the matte product is washable.

Gloss level (5%-10%): offices, living rooms and master bedrooms.

Gloss level (10%-20%): moderate-traffic commercial spaces, corridors and entrances.

Finishes with a gloss of 20 to 35%: high-traffic commercial spaces, schools, children's rooms, kitchens and bathrooms (for humid bathrooms, a mildew-resistant product may be an additional factor).

Gloss level higher than 35%: it is rare to have a need for washability that a gloss level of 20% to 35% cannot meet. These kinds of finishes are usually the choice for decorative applications.

11. Cleaning

All rags and debris shall be removed at the end of each day and shall not be permitted to accumulate. Materials such as rags used with certain products may undergo spontaneous combustion. After use, put rags in water or lay flat to dry and then discard.

Upon completion of painting, remove all paint and varnish spots from floors, walls, hardware, glass, etc., in order to leave all surfaces clean and in perfect condition. Make sure all doors, drawers and windows operate freely.

The contractor shall remove from the building all excess material, leftovers and scrap resulting from his work.

12. Guarantee

The architect must be satisfied with the appearance of the finishes and all work not approved shall be immediately corrected upon notification. The painting contractor's work force will not be responsible for any damage caused by others. The architect may require a written guarantee that any defect that might show within a year from the date of completion shall be corrected to his satisfaction.

Satisfactory work is generally based on the following criteria:

The surface should be checked against the prescribed specifications. The texture should be uniform – with no signs of edging, brush or roller marks.

The finish should be uniform: there should be no variations in the gloss finish on the same surface. The colour should be uniform over the entire surface and should perfectly mask the previous colour. The hardness of the paint should correspond to its intended use. However, you should give one month for the paint to harden before assessing the quality. Until that time, the surface needs to be handled with care.

PPG Architectural Coatings Canada, Inc. warrants performance of its products to its intended use if properly applied in accordance with the label directions and the specifications of the technical data sheet. Having no control over the application methods and conditions or the circumstances related to its use, no other warranty, expressed or implied, statutory or otherwise is given. This limited warranty extends only to the original purchaser of the product and is not transferable or assignable. If the product fails to conform to this limited warranty, we will, at your option, furnish replacement product or refund the purchase price. This limited warranty excludes (1) labour or costs of labour for the application or removal of any product and (2) all other direct, indirect, incidental, special or consequential damages.

Master specifications

INTERIOR FINISHING

1. System for ceilings: gypsum board and poured concrete

Apply one coat of *Sico Expert* latex primer-sealer 870-130 and/or 870-799, MPI-50 approved. VOC: < 150 g/L.

Apply two coats of *Sico Expert* flat finish latex for ceilings 871-066. VOC: < 50 g/L. Gloss (60°): 0 to 5%.

2. System for walls: gypsum board and poured concrete

Apply one coat of *Sico Expert* latex primer-sealer 870-130 and/or 870-799, MPI-50 approved. VOC: < 150 g/L.

LATEX FINISHING

Apply two coats of *Sico Expert* low VOC eggshell finish latex 872-6XX series. VOC: < 100 g/L. Gloss (60°): 0 to 5%.

OR – Apply two coats of *Sico Expert* low VOC velvet finish 100% acrylic latex 873-series, MPI-44 approved. VOC: < 150 g/L. Gloss (60°): 5 to 12%.

OR – Apply two coats of *Sico Expert* low VOC platinum finish 100% acrylic latex 874-series, MPI-52 approved. VOC: < 150 g/L. Gloss (60°): 10 to 20%.

OR – Apply two coats of *Sico Expert* low VOC melamine finish 100% acrylic latex 875-series, MPI-43 approved. VOC: < 150 g/L. Gloss (60°): 20 to 30%.

OR – Apply two coats of *Sico Expert* low VOC semi-gloss finish latex 877-series, MPI-54 approved. VOC: < 150 g/L. Gloss (60°): 45 to 55%.

OR – Apply two coats of *Sico Muse* latex 991-series (ultra-washable soft matte finish). VOC: < 50 g/L. Gloss (60°): 0 to 5%.

OR – Apply two coats of *Sico Muse* latex 992-series (ultra-washable soft gloss finish). **VOC: 0 g/L.** Gloss (60°): 5 to 10%

3. System for concrete block walls

Apply one coat of *Sico Expert* block filler primer for concrete blocks 675-115, MPI-4 approved. VOC: < 100 g/L.

Select a finishing listed in No. 2.

4. System for wood surfaces to be painted (doors or woodworks)

Seal knots or sap streaks with a coat of shellac.

Apply one coat of *GoPrime* alkyd emulsion primer 150-135 or *Sico Expert* 890-114 and two finishing coats (selected according to the list in No. 2).

5. System for woodworks to be stained (other than floors)

Apply one coat (or more if required) of CRYSTALEX® pigmented latex stain 118-series.

Apply three coats of *Crystalex* clear latex varnish 194-090 (gloss), MPI-129 approved. VOC: < 200 g/L. Gloss (60°): > 70%.

OR – Apply three coats of *Crystalex* clear latex varnish 194-100 (semi-gloss), MPI-129 approved. VOC: < 200 g/L. Gloss (60°): 35 to 45%.

OR – Apply three coats of *Crystalex* clear latex varnish 194-110 (satin), MPI-128 approved. VOC: < 200 g/L. Gloss (60°): 15 to 25%.

6. System for giving a natural finish to woodworks other than floors

Apply the latex system with three coats of *Crystalex* clear varnish 194-090 (gloss), MPI-129 approved. Light sanding between each coat is recommended. VOC: < 200 g/L. Gloss (60°): > 70%.

OR – Apply the latex system with three coats of *Crystalex* clear varnish 194-100 (semi-gloss), MPI-129 approved. Light sanding between each coat is recommended. VOC: < 200 g/L. Gloss (60°): 35 to 45%.

OR – Apply the latex system with three coats of *Crystalex* clear varnish 194-110 (satin), MPI-128 approved. Light sanding between each coat is recommended. VOC: < 200 g/L. Gloss (60°): 15 to 25%.

7. System for concrete floors

Apply two or three coats of *Sico* 100% acrylic and polyurethane latex 261-series, MPI-60 approved. VOC: < 150 g/L. Gloss (60°): 10 to 20%.

8. System for primed or unprimed ferrous metal surfaces

Apply two coats of *Sico Expert* anti-rust paint for metal 632-series.

OR – Two coats of *Sico Expert* anti-rust paint for metal 922-series.

9. System for zinc-coated or galvanized metal surfaces

Treat the surface with *Corrostop* Ultra metal cleaner and rust remover 635-104.

Pressure rinse with clear water.

Apply one coat of *Corrostop* Ultra latex primer for galvanized metal 635-045. VOC: < 150 g/L.

Apply two coats of finishing according to the list in No. 2.

OR – Two coats of *Sico Expert* anti-rust paint for metal 632-series.

OR – Two coats of *Sico Expert* anti-rust paint for metal 922-series.

10. System for large steel deck ceilings and steel bridging

According to specifications, apply *Sico Expert* dry fall spray paint 881-series (flat finish). VOC: < 350 g/L. Gloss (60°): 0 to 5%.

OR – According to specifications, apply *Sico Expert* dry fall spray paint 871-140, MPI-118 and MPI-133 approved. VOC: < 50 g/L. Gloss (60°): 0 to 6%.

OR – According to specifications, apply *Sico Expert* dry fall colour base 871-133. VOC: < 100 g/L.

Master specifications for zero VOC

EXTERIOR FINISHING

1. System for wood surfaces to be painted

Apply one coat of *GoPrime* alkyd emulsion primer 150-135 or *Sico Expert* 890-114 (some wood species, prone to staining, may require two coats).
OR – One coat of *GoPrime* stain-killer, primer-sealer and undercoater 200-135 or *Sico Expert* 880-124.

Apply two coats of *Sico Expert* flat finish acrylic latex 971-series, MPI-10 approved.

OR – Two coats of *Sico Expert* semi-gloss finish 977-series. VOC: < 150 g/L. Gloss (60°): 65 to 75%.

2. System for primed or unprimed ferrous metal surfaces

Apply two coats of *Sico Expert* rust-preventive coating 922-060.

OR – Two coats of *Sico Expert* anti-rust paint for metal 922-series.

OR – Two coats of *Sico Expert* anti-rust paint for metal 632-series, MPI-153 approved.

3. System for zinc-coated or galvanized metal surfaces

Treat the surface with *Corrostop* Ultra metal cleaner and rust remover 635-104.

Pressure rinse with clear water.

Apply one coat of *Corrostop* Ultra latex primer for galvanized metal 635-045. VOC: < 150 g/L.

Apply two coats of *Sico Expert* semi-gloss finish acrylic latex 977-series (except for roofs).

OR – Two coats of *Sico Expert* flat finish acrylic latex 971-series, MPI-10 approved (except for roofs).

OR – Two coats of *Sico Expert* anti-rust paint for metal 922-series.

OR – Two coats of *Sico Expert* anti-rust paint for metal 632-series, MPI-153 approved (except for roofs).

4. System for masonry, concrete and fibre cement surfaces

Apply two coats of *Sico Expert* flat finish acrylic latex 971-series, MPI-10 approved.



INTERIOR FINISHING

1. System for ceilings: gypsum board and poured concrete

Apply one coat of *Sico Ecosource* zero VOC latex primer-sealer 850-130, compliant with *Green Seal* GS-11 certification standards.

OR – Apply one coat of *Sico Expert* zero VOC latex primer-sealer 830-130.

Apply two coats of *Sico Ecosource* zero VOC flat latex for ceilings 851-116 (white), compliant with *Green Seal* GS-11 certification standards. Gloss (60°): 0 to 5%.

OR – Apply two coats of *Sico Expert* zero VOC flat for ceilings latex 831-117. Gloss (60°): 0 to 5%

2. System for walls: gypsum board, poured concrete and concrete blocks

Apply one coat of *Sico Ecosource* zero VOC latex primer-sealer 850-130, compliant with *Green Seal* GS-11 certification standards.

OR – Apply one coat of *Sico Expert* zero VOC latex primer-sealer 830-130.

Apply two coats of *Sico Ecosource* zero VOC velvet finish 100% acrylic latex 853-series, compliant with *Green Seal* GS-11 certification standards. Gloss (60°): 4 to 10%.

OR – Apply two coats of *Sico Ecosource* zero VOC melamine finish 100% acrylic latex 855-series, compliant with *Green Seal* GS-11 certification standards. Gloss (60°): 20 to 30%.

OR – Apply two coats of *Sico Ecosource* zero VOC semi-gloss finish 100% acrylic latex 857-series, compliant with *Green Seal* GS-11 certification standards, MPI-54 and MPI-147 certified. Gloss (60°): 45 to 55%.

OR – Apply two coats of *Sico Expert* zero VOC flat finish latex 831-series. Gloss (60°): 0 to 5%

OR – Apply two coats of *Sico Expert* zero VOC eggshell finish latex 833-series. Gloss (60°): 3 to 8%

OR – Apply two coats of *Sico Expert* zero VOC melamine finish latex 835-series. Gloss (60°): 20 to 30%

OR – Apply two coats of *Sico Muse* zero VOC 100% acrylic latex 992-series (ultra-washable soft gloss finish). Gloss (60°): 5 to 10%.

3. System for wood surfaces to be painted (doors or woodworks)

Seal knots or sap streaks with a coat of shellac.

Apply one coat of *Sico Expert* low VOC latex primer 870-177, MPI-6 approved. VOC: < 50 g/L.

Apply two coats of *Sico Ecosource* zero VOC melamine finish 100% acrylic latex 855-series, compliant with *Green Seal* GS-11 certification standards and MPI-43 certified. Gloss (60°): 20 to 30%.

OR – Apply two coats of *Sico Ecosource* zero VOC semi-gloss finish 100% acrylic latex 857-series, compliant with *Green Seal* GS-11 certification standards, MPI-54 and MPI-147 certified. Gloss (60°): 45 to 55%.

OR – Apply two coats of *Sico Expert* zero VOC flat finish latex 831-series. Gloss (60°): 0 to 5%

OR – Apply two coats of *Sico Expert* zero VOC eggshell finish latex 833-series. Gloss (60°): 3 to 8%

OR – Apply two coats of *Sico Expert* zero VOC melamine finish latex 835-series. Gloss (60°): 20 to 30%

Note: For work that must meet more stringent requirements for physical and chemical resistance, see the SIERRA™ line of zero VOC coatings by RUST-OLEUM®. Consult your technical representative for further information.

SUBSTRATE	NEW SURFACES	FINISHING ASPECT	SURFACE PREP.	PRIMER				FINISH	RECOMMENDED FINISH			
				LATEX ZERO VOC	LATEX LOW VOC	ALKYD	ALKYD EMULSION		LATEX ZERO VOC	LATEX LOW VOC	ALKYD	ALKYD EMULSION
GYPSUM BOARD	Ceilings	Paint	7F	850-130 or 830-130	870-130 or 870-799			Flat	851-116 or 831-117 or 831-6XX	871-066		
								Satin PRO		841-121		
								Eggshell		872-6XX		
								Velvet	853-6XX or 833-6XX	873-6XX		
	Walls	Paint	7F	850-130 or 830-130	870-130 or 870-799			Flat		871-6XX or 991-5XX		
								Satin PRO		841-121		
								Satin		872-61X		
								Eggshell		872-6XX		
								Velvet	992-5XX or 853-6XX or 833-6XX	873-6XX		
								Platinum		874-6XX		
								Melamine	855-6XX or 835-6XX	875-6XX		125-5XX
								Pearl		876-6XX		
	Semi-gloss	857-6XX	877-6XX									
	WOOD	Ceilings	Paint	7A		870-177	880-124** or 200-135**	150-135 or 890-114*	Flat	851-116 or 831-117 or 831-6XX	871-066	
Eggshell										872-6XX		
Velvet									853-6XX or 833-6XX	873-6XX		
Walls		Paint	7A		870-177	880-124** or 200-135**	150-135 or 890-114*	Flat		871-6XX or 991-5XX		
								Satin		872-61X		
								Eggshell		872-6XX		
								Velvet	992-5XX or 853-6XX or 833-6XX	873-6XX		
								Platinum		874-6XX		
								Melamine	855-6XX or 835-6XX	875-6XX		125-5XX
								Pearl		876-6XX		
Semi-gloss		857-6XX	877-6XX									
Ceilings and walls		Varnish	7B	Latex semi-transparent wood stain 118-503				Satin		194-110		
				Semi-gloss		194-100						
				Gloss		194-090						
Floors		Paint	7A					Satin		261-XXX		
		Varnish	7B					Satin		196-110	905-110	
				Semi-gloss		196-100	905-100					
				Gloss		196-090	905-090					
Woodworks Doors Cabinets Furniture Panelling Moulding		Paint	7A		870-177	880-124** or 200-135**	150-135 or 890-114*	Satin		261-XXX		
								Platinum		874-6XX		
								Melamine	855-6XX or 835-6XX	875-6XX		125-5XX
								Pearl		876-6XX		
	Semi-gloss	857-6XX	877-6XX									
	Varnish	7B	Latex semi-transparent wood stain 118-503				Satin		194-110	905-110		
			Semi-gloss		194-100	905-100						
			Gloss		194-090	905-090						

*Some wood species, prone to staining, may require two coats.

**On cedar or redwood, it is preferable to apply a *GOPRIME* alkyd primer 200-135 or *SICO EXPERT* 880-124.

SUBSTRATE	NEW SURFACES	FINISHING ASPECT	SURFACE PREP.	PRIMER				FINISH	RECOMMENDED FINISH				
				LATEX ZERO VOC	LATEX LOW VOC	ALKYD	ALKYD EMULSION		LATEX ZERO VOC	LATEX LOW VOC	ALKYD	ALKYD EMULSION	
PLASTER	Ceilings	Paint	7G	Fresh plaster 850-130 or 830-130	Fresh plaster 870-130 or 870-799	880-124 or 200-135		Flat	851-116 or 831-117 or 831-6XX	871-066			
								Eggshell		872-6XX			
								Velvet		873-6XX			
	Walls	Paint	7G	Fresh plaster 850-130 or 830-130	Fresh plaster 870-130 or 870-799	Plaster 880-124 or 200-135			Flat	831-6XX	991-5XX		
									Eggshell		872-6XX		
									Velvet	992-5XX or 853-6XX or 833-6XX	873-6XX		
									Platinum		874-6XX		
									Melamine	855-6XX or 835-6XX	875-6XX		125-5XX
									Pearl		876-6XX		
	Semi-gloss	857-6XX	877-6XX										
	CONCRETE (CAST, PRECAST) BLOCKS	Ceilings	Paint	7E	850-130 or 830-130	870-130 or 870-799 or 675-115			Flat	851-116 or 831-117 or 831-6XX	871-066 or 991-5XX		
									Eggshell		872-6XX		
Velvet									992-5XX or 853-6XX or 833-6XX	873-6XX			
Walls		Paint	7E	850-130 or 830-130	870-130 or 870-799 or 675-115				Flat	831-6XX	991-5XX		
									Eggshell		872-6XX		
									Velvet	992-5XX or 853-6XX or 833-6XX	873-6XX		
									Platinum		874-6XX		
									Melamine	855-6XX or 835-6XX	875-6XX		125-5XX
									Pearl		876-6XX		
Semi-gloss		857-XXX	877-6XX										
CONCRETE		Floors	Paint	7E					Satin		261-XXX		
			Heavy-duty system	7E	Consult your architect's representative for heavy-duty coatings or specialties.								
	Pools Fountains Basins	Paint	7E	Consult your architect's representative for heavy-duty coatings or specialties.									
	Marking	Paint	7					Satin		261-XXX			
BRICK STONE	Walls	Paint	7E		870-130			Consult concrete section					
		Transparent finish	7E					Satin, Semi-gloss, Gloss		194-XXX or 196-XXX or 226-040			
ACOUSTICAL TILES	Ceilings	Paint	7I	If water stains 150-135 or 890-114				Flat		871-066 or 991-5XX			
								Eggshell		872-6XX			

SUBSTRATE	NEW SURFACES	FINISHING ASPECT	SURFACE PREP.	PRIMER				FINISH	RECOMMENDED FINISH				
				LATEX ZERO VOC	LATEX LOW VOC	ALKYD	ALKYD EMULSION		LATEX ZERO VOC	LATEX LOW VOC	ALKYD	ALKYD EMULSION	
THERMAL INSULATION	Ducts Equipment	Paint	7					Velvet	853-6XX or 833-6XX				
								Platinum		874-6XX			
								Melamine	855-6XX or 835-6XX				
								Pearl		876-6XX			
								Semi-gloss	857-6XX	877-6XX			
COLD ROOMS	Ceilings Walls Floors	Paint	7E	Consult your representative to select a product that respects sanitary standards related to the food industry.									
METAL	Steel deck ceilings	Paint	7H					Flat		871-140	881-125		
	Walls	Paint	7H Steel					Flat		871-6XX			
			7H Galvanized steel		635-045				Platinum		874-6XX		
								Melamine		875-6XX		125-5XX	
								Pearl		876-6XX			
								Semi-gloss		877-6XX			
								Gloss			922-XXX		
	Doors Frames Structures Ducts	Paint	7H Steel					Platinum		874-6XX			
			7H Galvanized steel		635-045	880-124 or 200-135			Melamine		875-6XX		125-5XX
									Pearl		876-6XX		
									Semi-gloss		877-6XX		
	Furniture Cabinets Railings Equipment Machinery	Paint	7H Steel					Satin		261-XXX			
			7H Galvanized steel		635-045	880-124 or 200-135			Gloss		632-XXX	922-XXX	
									Semi-gloss		877-6XX		
								Gloss		632-XXX	922-XXX		
	Interior of tanks	Paint	7H	Consult your architect's representative for heavy-duty coatings or specialties.									
	Floors Stairs	Paint	7H					Satin		261-XXX*	635-060		
		Heavy-duty system		Consult your architect's representative for heavy-duty coatings or specialties.									
	Exterior of ventilation ducts	Paint	7H Galvanized steel		635-045	880-124 or 200-135			Eggshell		872-6XX		
									Velvet		873-6XX		
									Platinum		874-6XX		
Pearl										876-6XX			
Semi-gloss										877-6XX			
							Gloss		632-XXX	922-XXX			

*If using 261-XXX on metal floor or metal stairs, apply one coat of 635-060 beforehand.

SUBSTRATE	NEW SURFACES	FINISHING ASPECT	SURFACE PREP.	PRIMER				FINISH	RECOMMENDED FINISH			
				LATEX ZERO VOC	LATEX LOW VOC	ALKYD	ALKYD EMULSION		LATEX ZERO VOC	LATEX LOW VOC	ALKYD	ALKYD EMULSION
OTHER SURFACES	Ceramic	Paint	7J			880-124 or 200-135	150-135 or 890-114	Melamine		875-6XX		125-XXX
								Pearl		876-6XX		
								Semi-gloss		877-6XX		
	MDF	Paint	7A			880-124 or 200-135	150-135 or 890-114	Melamine		875-6XX		125-XXX
								Pearl		876-6XX		
								Semi-gloss		877-6XX		
	Plastic P.V.C.	Paint	7J			880-124 or 200-135	150-135 or 890-114	Melamine		875-6XX		125-XXX
								Pearl		876-6XX		
								Semi-gloss		877-6XX		
	Melamine Formica	Paint	7J			880-124 or 200-135	150-135 or 890-114	Melamine		875-6XX		125-XXX
								Pearl		876-6XX		
								Semi-gloss		877-6XX		
	Stratified	Paint	7J			880-124 or 200-135	150-135 or 890-114	Melamine		875-6XX		125-XXX
								Pearl		876-6XX		
								Semi-gloss		877-6XX		
	Glass	Paint	7J			880-124 or 200-135	150-135 or 890-114	Melamine		875-6XX		125-XXX
								Pearl		876-6XX		
								Semi-gloss		877-6XX		

SUBSTRATE	NEW SURFACES	FINISHING ASPECT	SURFACE PREP.	PRIMER				FINISH	RECOMMENDED FINISH				
				LATEX ZERO VOC	LATEX LOW VOC	ALKYD	ALKYD EMULSION		LATEX ZERO VOC	LATEX LOW VOC	ALKYD	ALKYD EMULSION	
SOLID WOOD	Roofing (shingles)	Translucent Wood Finish	7D		First coat: Soak shingles before installation			Semi-gloss			236-XXX		
		Solid stain	7C					Satin		232-XXX			
	Walls Doors Windows Trim Woodworks Fences	Paint	7C				150-135 or 890-114	Flat		971-6XX			
			Semi-transparent stain	7D				Semi-gloss		977-6XX			
		Translucent Wood Finish	7D					Flat		234-XXX			
		Solid stain	7C					Semi-gloss			236-XXX		
		Floors	Paint	7C				150-135 or 890-114*	Satin		261-XXX		
				Semi-transparent stain	7D				Flat		234-XXX		
	Translucent Wood Finish		7D					Semi-gloss			236-XXX		
	Solid stain		7C					Satin		232-XXX			
	TREATED WOOD	Floors Decks Fences	Semi-transparent stain	7D				Flat		234-XXX			
			Translucent Wood Finish	7D				Semi-gloss			236-XXX		
Solid stain			7C					Satin		232-XXX			
PLYWOOD	Walls Doors	Paint	7C			880-124 or 200-135	Flat		971-6XX				
			Semi-gloss					977-6XX					
	Floors	Paint	7C			880-124 or 200-135		Satin		261-XXX			
		Semi-transparent stain	7D					Flat		234-XXX			
		Translucent Wood Finish	7D					Semi-gloss			236-XXX		
Solid stain	7C			880-124 or 200-135		Satin		232-XXX					

*Some wood species, prone to staining, may require two coats.

SUBSTRATE	NEW SURFACES	FINISHING ASPECT	SURFACE PREP.	PRIMER				FINISH	RECOMMENDED FINISH				
				LATEX ZERO VOC	LATEX LOW VOC	ALKYD	ALKYD EMULSION		LATEX ZERO VOC	LATEX LOW VOC	ALKYD	ALKYD EMULSION	
CONCRETE AND MASONRIES	Roofing (asbestos-cement)	Paint	7E					Flat		971-6XX			
								Semi-gloss		977-6XX			
	Walls Brick Stone Asbestos-cement	Paint	7E					Flat		971-6XX			
								Semi-gloss		977-6XX			
	Floors Stairs Ramps	Paint	7E					Satin		261-XXX			
	Marking	Paint	7E	Consult your architect's representative for heavy-duty coatings or specialties.									
Fountains Basins	Paint	7E											
ASPHALT	Floors (tennis)	Paint	7					Satin		261-XXX			
	Marking	Paint	7					Satin		261-XXX			
PRE-FINISHED SIDINGS	Masonite Aluminium Galvanized steel	Paint	7K					Flat		971-6XX			
								Satin		232-XXX			
								Semi-gloss		977-6XX			
	Vinyl	Paint (only pastel colours)	7K						Flat		971-6XX		
									Satin		232-XXX		
									Semi-gloss		977-XXX		

SUBSTRATE	NEW SURFACES	FINISHING ASPECT	SURFACE PREP.	PRIMER				FINISH	RECOMMENDED FINISH			
				LATEX ZERO VOC	LATEX LOW VOC	ALKYD	ALKYD EMULSION		LATEX ZERO VOC	LATEX LOW VOC	ALKYD	ALKYD EMULSION
METAL	Roofing (Galvanized steel)	Paint	7H		Non-rusted metal 635-045	880-124 or 200-135		Gloss			922-XXX	
		Heavy-duty system		Consult your architect's representative for heavy-duty coatings or specialties.								
	Flashing Gutters Cladding (galvanized steel)	Paint	7H		635-045	880-124 or 200-135		Flat		971-6XX		
								Satin		232-XXX		
								Semi-gloss		977-6XX		
								Gloss		632-XXX		
	Doors (milled steel)	Paint	7H					Gloss		632-XXX	922-XXX	
	Doors Windows Awnings (galvanized steel or aluminum)	Paint	7H		635-045	880-124 or 200-135		Gloss		632-XXX	922-XXX	
	Structural steel posts Columns Railings Fences Exterior of tanks	Paint	7H					Gloss		632-XXX	922-XXX	
		Heavy-duty system		Consult your architect's representative for heavy-duty coatings or specialties.								
Stairs	Paint	7H					Gloss			922-XXX		
Machinery Equipment Ramps	Paint	7H					Gloss		632-XXX	922-XXX		
Copper Brass Bronze	Paint	7H					Flat		971-6XX			
							Semi-gloss		977-6XX			
							Gloss		632-XXX	922-XXX		
OTHER SURFACES	Water-repellent plywood	Paint	7F			880-124 or 200-135	Flat		971-6XX			
							Satin		261-XXX*			
							Semi-gloss		977-6XX			
							Gloss			922-XXX		

*For Floors Only

CODE	BRAND	MPI
125-5XX*	SICO	Type 168
150-135*	SICO GOPRIME	
194-090*	CRYSTALEX	■ 130
194-100*	CRYSTALEX	■ 129
194-110*	CRYSTALEX	■ 128
200-135	SICO GOPRIME	
261-XXX	SICO	■ 60
609-114	SICO EXPERT	
620-120	SICO EXPERT	■ 1
632-110	SICO EXPERT	
632-180	SICO EXPERT	
632-601	SICO EXPERT	■ 153
632-602	SICO EXPERT	
632-603	SICO EXPERT	
635-045	CORROSTOP ULTRA	
675-115*	SICO EXPERT	■ 4
830-130	SICO EXPERT	Type 50
831-117	SICO EXPERT	Type 53
831-6XX	SICO EXPERT	Type 53
833-6XX	SICO EXPERT	Type 44
835-6XX	SICO EXPERT	Type 43
841-121	SICO EXPERT	
850-130*	SICO ECOSOURCE	Type 149 and type 50
851-116*	SICO ECOSOURCE	Type 143
853-6XX*	SICO ECOSOURCE	■ 144
855-6XX*	SICO ECOSOURCE	■ 43 and Type 146
857-6XX*	SICO ECOSOURCE	■ 54 and 147
870-130	SICO EXPERT	■ 50
870-177*	SICO EXPERT	■ 6, Type 50 and type 39
870-799	SICO EXPERT	■ 50
871-066*	SICO EXPERT	Type 53
871-133	SICO EXPERT	Type 118
871-140*	SICO EXPERT	■ 118 and 133
871-6XX	SICO EXPERT	■ 53

Legend:

MPI The Master Painters Institute
 Type Product whose characteristics are similar to the standard

* This product meets the requirement criteria for LEED certified projects (2009)

CODE	BRAND	MPI
872-122	SICO EXPERT	Type 53
872-125	SICO EXPERT	
872-611	SICO EXPERT	Type 53
872-612	SICO EXPERT	Type 53
872-613	SICO EXPERT	Type 53
872-6XX*	SICO EXPERT	Type 44
873-118	SICO EXPERT	Type 44
873-6XX	SICO EXPERT	■ 44
874-6XX	SICO EXPERT	■ 52
875-6XX	SICO EXPERT	■ 43
876-6XX	SICO EXPERT	
877-6XX	SICO EXPERT	■ 54
880-124	SICO EXPERT	
881-116	SICO EXPERT	Type 49
881-125	SICO EXPERT	Type 55
881-603	SICO EXPERT	Type 55
890-114*	SICO EXPERT	Type 172
905-090	SICO EXPERT	
905-100	SICO EXPERT	
905-110	SICO EXPERT	
922-060	SICO EXPERT	
922-110	SICO EXPERT	
922-120	SICO EXPERT	Type 1
922-150	SICO EXPERT	
922-180	SICO EXPERT	
922-190	SICO EXPERT	
922-340	SICO EXPERT	
922-480	SICO EXPERT	
922-520	SICO EXPERT	
922-585	SICO EXPERT	
922-6XX	SICO EXPERT	
922-725	SICO EXPERT	
922-985	SICO EXPERT	
971-180	SICO EXPERT	■ 10
971-6XX	SICO EXPERT	■ 10
977-6XX	SICO EXPERT	Type 11
989-655	SICO EXPERT	Type 9
991-5XX*	SICO MUSE	
992-5XX*	SICO MUSE	

		TEMPERATURE-CELSIUS									
		-5	0	5	10	15	20	25	30	35	40
RELATIVE HUMIDITY	90	-6.5	-1.3	3.5	8.2	13.3	18.3	23.2	28.0	33.0	38.2
	85	-7.2	-2.0	2.6	7.3	12.5	17.4	22.1	27.0	32.0	37.1
	80	-7.7	-2.8	1.9	6.5	11.6	16.5	21.1	25.9	31.0	36.2
	75	-8.4	-3.6	0.9	5.6	10.4	15.4	19.9	24.7	29.6	35.0
	70	-9.2	-4.5	0.2	4.5	9.1	14.2	18.6	23.3	28.1	33.5
	65	-10.0	-5.4	-1.0	3.3	8.0	13.0	17.4	22.0	26.8	32.0
	60	-10.8	-6.5	-2.1	2.3	6.7	11.9	16.2	20.6	25.3	30.5
	55	-11.6	-7.4	-3.2	1.0	5.6	10.4	14.8	19.1	23.9	28.9
	50	-12.8	-8.4	-4.4	-0.3	4.1	8.6	13.3	17.5	22.2	27.1
	45	-14.3	-9.6	-5.7	-1.5	2.6	7.0	11.7	16.0	20.2	25.2
	40	-15.9	-10.8	-7.3	-3.1	0.9	5.4	9.5	14.0	18.2	23.0
	35	-17.5	-12.1	-8.6	-4.7	-0.8	3.4	7.4	12.0	16.1	20.6
30	-19.0	-14.3	-10.2	-6.9	-2.9	1.3	5.2	9.2	13.7	18.0	

EXAMPLE: If the air temperature (or surface) is 25 ° C and relative humidity of 45%, the dew point is 11.7 ° C.

Dew point: the temperature at which condensation forms at a given humidity rate.

To paint, the dew point should be at least 3°C lower than the temperature of the air (or the surface). (MPI)

This table shows that it is theoretically possible to paint with up to 80% in humidity. In practice, we believe that 50% humidity is high enough to have an impact on drying time. Above that level, we generally recommend doubling the drying/recoat time.

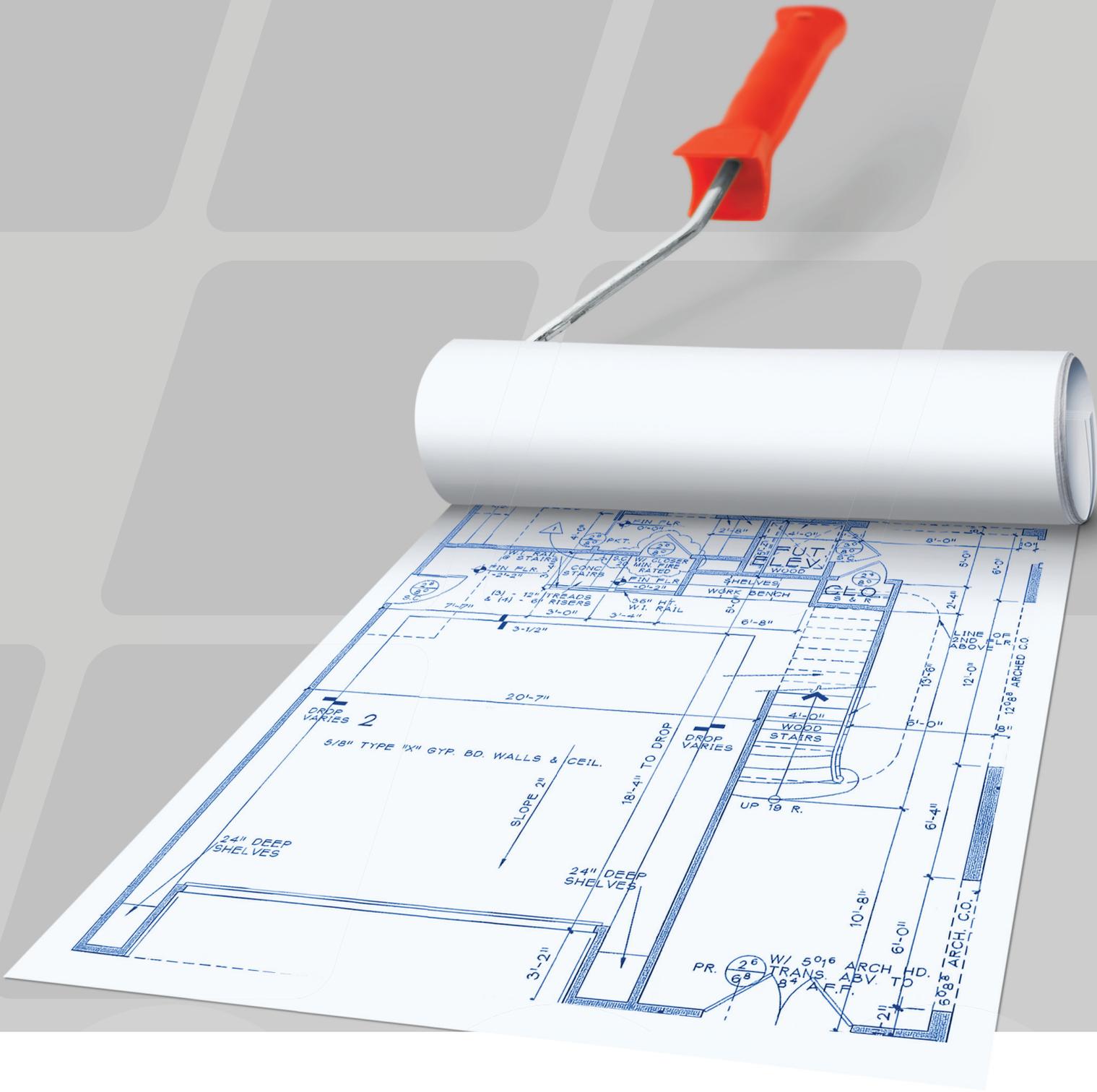
Ideally, **a healthy home should have a relative humidity (RH) level of about 50% in summer and 30% during the winter.**

The relative humidity and humidity level of a substrate are two separate matters. The exterior wood should not be painted if it contains more than 12% humidity. Concrete should not be painted if it contains more than 4%. New plaster should not be painted if it contains more than 6%.

Even without any plastering expertise, we can safely assume that a humidity level of over 50% will slow down both the paint and plaster drying time. If the manufacturer recommends a specific plaster drying time before painting, it may be advisable to consult the manufacturer if you need to plaster a room with very high humidity.

The ideal application temperature is **between 15°C and 25°C**. At a temperature lower than 10°C, paint dries more slowly than the time shown on the technical data sheet. If the room is cold and humid, two drying delay factors come into play. For example: if the temperature is lower than 10°C, we recommend doubling the drying time. If the humidity is above 50%, doubling the drying time is once again advisable. If the temperature is 10°C and the humidity is above 50%, we recommend quadrupling the drying time.

If the temperature is over 25°C, paint dries more quickly than the time shown on the technical data sheet. This makes paint increasingly difficult to apply, which could lead to an uneven finish. It can even make the paint dry before the binder has time to adhere to the surface. If the room is hot and dry, two drying acceleration factors enter the equation.



SICO[®]

WALL TO WALL CONFIDENCE[™]