

# RESPISAFE

5-IN-1 ZERO VOC PAINT

## WATER-BASED ARCHITECTURAL PAINTS



COLORTEK®

### Description

RESPISAFE is a 100% Acrylic coating with formaldehyde abatement technology that purifies and improves the Indoor Air Quality (IAQ) of homes and commercial buildings by enabling the paint to eliminate up to 100% of the formaldehyde present in the air over time. **RESPISAFE benefits from Colortek's 5 in 1 technology.** In addition to formaldehyde abatement functionality, it has been specifically developed to provide burnish resistance, crack bridging, anti-bacterial and Zero VOC\* emissions properties.

\* With levels inferior to 5 g/L, RESPISAFE ultra low VOC content and emission level is considered inexistent as defined by Indoor Air Quality standards and certification agencies (maximum allowed of 30 g/L).

### Recommended For

Interior applications on wood, metal, plaster, wallboards, concrete, cement rendering, brickwork & block work etc.

### Key Features

- Formaldehyde abatement
- Burnish resistance
- Crack bridging ability
- Easy-clean
- Anti-Bacterial
- Superior durability
- Very good hiding power and opacity
- High build

### Physical Properties

|                              |                                                              |                                                                        |
|------------------------------|--------------------------------------------------------------|------------------------------------------------------------------------|
| Anti-Bacterial Properties    | Pass                                                         | JIS Z 2801                                                             |
| Solvent Type                 | Waterborne                                                   |                                                                        |
| Finish Type                  | Gloss Level 1, A Flat finish                                 | Less than 5 units 60 degrees<br>Less than 10 units at 85 degrees       |
| Gloss                        | (60/85) = 4.0/8.2                                            | Based on ASTM D523                                                     |
| Spreading Rate               | Approximately 8-10 m <sup>2</sup> /L                         | Depending on surface porosity and application techniques               |
| Average Dry Time             | Touch-dry in 1/2-1 hour                                      | Based on ASTM D 1640                                                   |
| Recoat                       | After 2-4 hours.                                             |                                                                        |
| Burnish resistance           | Pass                                                         | ASTM D6736-08                                                          |
| Formaldehyde absorption      | Up to 30 µg/m <sup>2</sup> .h                                | ISO 16000-23                                                           |
| Crack bridging ability       | Up to 0.5 mm                                                 | based on BS EN 1062-7:2004                                             |
| Dry Film Thickness           | 40 and 45 microns depending on application                   |                                                                        |
| Thinner                      | 0-5 % clean water                                            |                                                                        |
| Adhesion                     | >1 N/mm <sup>2</sup><br>4B                                   | Based on ASTM D4541.<br>Based on ASTM D3359                            |
| Contrast ratio (dry opacity) | 96.7% ±0.3 at 100 micron WFT<br>97.8% ±0.3 at 200 micron WFT | ASTM D2805                                                             |
| Scrub Resistance             | Higher than 10,000 cycles                                    | Based on ASTM D2486                                                    |
| Hiding Power                 | >98%                                                         | ASTM D2805                                                             |
| Alkali resistance            | Passes                                                       | ASTM D1308                                                             |
| Density                      | ~1.47 g/cm <sup>3</sup>                                      |                                                                        |
| Solids (weight)              | ~60 %                                                        |                                                                        |
| Solids (volume)              | 44%                                                          |                                                                        |
| Viscosity Stormer            | 100 ± 5 KU                                                   |                                                                        |
| VOC                          | < 5 g/L                                                      | Tested under USEPA 24<br>Compliant with Directive 2004/42/EC & LEED V4 |
| Bases                        | White, W1, N                                                 |                                                                        |



The Solution Inside



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## Certifications & Compliance

### THIS PRODUCT IS GREENGUARD GOLD CERTIFIED

The above-mentioned certification determines our products compliance with the following building codes and programs amongst others:

- CHPS 2.2.2: Paints & Coatings
- LEED 2008, LEED 2009 and LEED V4

This product is compliant with the following standards

- Masters Paint Institute #10– Latex Exterior Flat
- Masters Paint Institute #40 – Latex exterior, High build
- Masters Paint Institute #53 – Latex Interior, Flat
- Masters Paint Institute #143 – Latex Interior, Institutional LOW ODOR/VOC, flat (gloss level 1)
- GS 11

## Surface Preparation

All surfaces must be cured, clean, dry, and free from dirt, dust, rust, stains, grease, oil, mildew, wax, efflorescence, bond-breakers and other contaminants. Remove all loose, peeling, or chalky paint by sanding, scraping, or any other appropriate methods. Repair all cracks, holes, and other surface imperfections with a suitable patching material. Repaired surfaces should then be sanded smooth and dusted clean and primed with a suitable Colortek primer.

New plaster or masonry surfaces must be allowed to cure (28 days) before applying base coat. Cured plaster should be hard, have a slight sheen and a maximum pH of 10. A soft, porous or powdery plaster indicates improper cure. Knife off any protrusions and prime the plaster before and after applying patching compound. Poured or pre-cast concrete with a very smooth surface should be etched or abraded to promote adhesion, after removing all form release agents and curing compounds. Remove any powder or loose particles.

**CAUTION:** Scraping or sanding surfaces of older buildings may release dust containing lead or asbestos. **EXPOSURE TO LEAD OR ASBESTOS CAN BE VERY HAZARDOUS TO YOUR HEALTH.** Always wear appropriate personal protective equipment during surface preparation and finish clean-up of any residues by water-washing all surfaces.

## Primer Systems

| SURFACE            | RECOMMENDED COLORTEK PRIMER           |
|--------------------|---------------------------------------|
| Drywall            | Colortek Primer                       |
| Porous masonry     | Colortek Sealer, Colortek Primer      |
| Non porous masonry | Colortek Primer or Colortek Undercoat |
| Wood               | Colortek Undercoat                    |
| Ferrous metal      | Colortek Adhero                       |
| Non-ferrous metal  | SX47 StopRust / Colortek Adhero       |

## Application Conditions

Do not apply at temperatures below 5 °C or when rain is expected.

## Application Method

Stir well. Apply using brush, roller or airless spray.

## Pack Size

|                  | W0   | W1   | N    |
|------------------|------|------|------|
| 1 US Quart (kg)  | 1.12 | 0.97 | 0.92 |
| 1 US Gallon (kg) | 4.47 | 3.88 | 3.68 |
| 1 US Drum (kg)   | 22.3 |      |      |

## Shelf Life

24 months from the date of production.

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### Storage and Handling

Care should be taken to avoid spillage. Store in a dry area. Protect from freezing. Extreme temperatures may cause paint to become unusable. For example: freezing and thawing may cause paint to gel, and high heat may cause solid skin to form.

### Safety

Use under well ventilated conditions. Do not breathe or inhale spray mist or sanding dust. Avoid skin contact; spillage on the skin should immediately be removed with suitable cleanser, soap and water. In case of eye contact, flush immediately with water for at least 15 minutes and seek medical attention immediately. If you have trouble breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately.

### Cleaning

Remove as much leftover product as possible from the application equipment before cleaning. Clean equipment immediately after use with warm soapy water and rinse thoroughly. Do not empty product into drains or watercourses.

### Technical Assistance

Available through your local COLORTEK® Design Center or through your COLORTEK PAINTS® authorized distributor. For the location of the retailer nearest you, email us at [info@colortek.eu](mailto:info@colortek.eu) or check our website [www.colortek.eu](http://www.colortek.eu).

### Disclaimer

Product batches are subject to stringent quality control checks in conformity with ISO 9001:2008, Certificate CH12/1128.

The information submitted in this manual is correct to the best of our knowledge & experience. No liability whatsoever can be accepted based on the information supplied herein.