Resene ContainerShield

Satin, waterborne shipping container coating Interior

Technical Data Sheet D905 V1-2-26

This data sheet replaces all previous issues

Resene Waterborne Interior ContainerShield is a single pack durable coating designed for refurbishing container interiors. This fast-drying high build is quick and easy to apply in one coat using airless or air-assisted spray, maximising productivity. Used inside container interiors to refurbish them to a standard fitting export quality of goods, for instance foodstuffs such as milk powder.

Typical uses

- Steel
- Ferrous and non-ferrous metals
- Refurbishment of container interiors including for Export + Dairy/Foodstuff

Performance

- Cost effective top coat for interior use
- Assure quality approved
- Fast dry
- Excellent coverage and hiding
- Low to no odour
- Low VOC
- No solvents, dangerous goods or explosion risk
- Excellent application attributes
- Easy clean up with water

Limitations

- Drying is slowed by low temperatures and high humidity. Do not apply under damp conditions.
- Do not apply if air temperature is not at least 10°C and rising at time of application.
- Ensure humidity is less than 75% rH and falling.
- Ensure no precipitation is forecast if outside for 4 hours after completion of application.
- Direct hot sunlight can cause skinning of the freshly painted surface; protection is recommended in these conditions.
- Not recommended as an exterior coating.

Physical properties

Vehicle type	Acrylic
Pigmentation	Titanium Dioxide
Solvent	Water
Finish	Satin
Colour	Grey and Red
Abrasion resistance	Very hard durable coating when fully cured
Levelling	Excellent
Vertical holdup	Excellent
VOC Level	24.7 grams per litre

Surface preparation

Coating performance is in general, proportional to the degree of surface preparation.

If the surface you propose to paint is unsound or not referred to in this document, refer to our website for comprehensive recommendations, alternatively contact your local Resene ColorShop or reseller for advice.

General
Clean down thoroughly to remove all dirt, dust and loose material. Ensure the surface is free from oil, grease and mould. If mould is present, treat with Resene Moss & Mould Killer (refer to label instructions and Data Sheet D80). Scuff any repairs and dust off.

Surfaces to be painted must be clean, dry and free from all traces of contamination and corrosion.

Before applying any coating ensure the surface is clean and dry. Refer also to Resene Surface Information and Preparation Data Sheet (SIPDS) for Metal as appropriate.

SIPDS No. 4
Metal

Repairs

If repairs are required, dry sand using 240-320 grit sandpaper or wet sand using 320-1000 grit sandpaper. Remove sanding dust, then coat.

Application

1. Scuff any repairs and remove sanding dust.
2. Stir thoroughly, mixing from the bottom of the pail towards the top with a wide flat stirrer prior to application. Do not shake or brush excessively.
3. Apply directly to all bare metal areas and pre-painted container interior.

Apply using a quality synthetic-bristled brush, roller or by spray.

Apply by	Brush, roller or spray
Typical coverage	12 sq. metres per litre. Variation may occur with method of application.
Dry film thickness	30 microns at 12 sq. metres per litre.
Wet film thickness	80 microns at 12 sq. metres per litre.
Volume solids	36%
Dry time (minimum)	Touch dry 10 minutes at 20°C. Handle 1 hour at 20˚C.
Recoat-ability	Can be recoated after 30 minutes (in ideal conditions)
Ideal environmental conditions	15-25degs C with a breeze of approximately 15km/h, and rH of less than 75%.
Usual no. of coats	1

Spraying
For spray application, use airless or air-assisted spray. 275-380 kPa (40-55 PSI), 1.5-2 mm tip, ensuring adequate airflow.

- When spraying, use the correct gun set up as recommended by your equipment supplier.
- Application techniques should be adjusted as necessary to achieve the recommended dry film thickness. It is good practice to check this process on a small sample prior taking on a large project.
- If you do not have a controlled environment with good air flow to spray in, it is good practice NOT to continue if relative humidity is above 75% and in particular, if temperatures are below 10°C or below 3°C of Dew Point.
- All spray setups are recommended starting points and may need adjustments to suit the equipment and conditions.

Thinning
Supplied ready to use. Do not thin.

Clean Up and Product Responsibility
Water when wet. When dry and starting to set up, use mineral turps.

See online for guidance on cleanup and disposal without polluting the environment.
Return any unwanted product or packaging to the PaintWise recycling service (NZ) or Paintback (AU).

Precautions

- Ensure the correct primer and/or sealer is used when required.
- Coverage may vary depending on substrate, colour, application technique and weather/temperature conditions.
- Maintain good ventilation throughout the drying and post application curing period to ensure the paint is properly cured. Poor ventilation may affect appearance and performance.
- To follow best practice, use a fan to ensure adequate air circulation which dispenses excess water to achieve stated dry times.
- All sanding dust can be harmful. Always wear appropriate protection.
- Seek expert advice if working with lead, chromate or asbestos based materials or surfaces.
- Follow manufacturer's instructions when overcoating putties and other fillers.

Read the current Safety Data Sheet before specifying or using Resene products. Resene Technical Data Sheets are updated from time to time. This Technical Data Sheet is provided as a guide for this product and may differ from the most recent version. Please discuss your project with your Resene Technical Representative, local Resene ColorShop team or reseller to ensure you have the right products to give you the best quality finish for your specific project.

Safety Data Sheet (SDS)

Read the Safety Data Sheet before use, visit www.resene.com/datasheets.

In Australia
www.resene.com.au
Call 1800 738 383
or email advice@resene.com.au

Resene
the paint the professionals use

In New Zealand
www.resene.co.nz
Call 0800 RESENE (737 363)
or email advice@resene.co.nz

AsureQuality

GLOBAL PROFICIENCY

14/05/2018 reference H3972

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To whom it may concern,

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Container Shield Interior

- Product description: fast drying, low odour, single pack anticorrosive acrylic paint, waterborne
- For use for: recoating interiors of shipping containers for food / dairy and related use

"Passed AsureQuality assessment for food/beverage/dairy recoating interiors of shipping containers" H3972 with conditions. This assessment was prepared by Global Proficiency Ltd using HACCP principles to determine equivalence with food standards listed below. See http://assessedproducts.asurequality.com/. This supports food Risk Management Programmes & other endorsements that may apply to this product include MPI regulated farm dairy approval, MPI dairy factory endorsement, MPI regulated non-dairy animal product approvals, EPA HSNO-OSH-environment approval (& previously AQIS).

Conditions:

- Used per instructions (Resene TED & SDS sighted), legislation, & GMP.
- Use with direct inspection before food loading after curing and airing to avoid food taint/ residues.
- The assessment is subject to notification of change and expires on 14/05/2023.
- The full report is attached for supplier review and verification. The assessment is activated by countersigning. (This appeared safe & non-tainting per relative safety of raw materials, & virtually no paint volatiles lost after 24 hours, no odour of dried paint, & preservation vs micro growth).

Prepared by Global Proficiency for AsureQuality Ltd by
Bob Hutchinson PhD SENIOR DEVELOPMENT SCIENTIST R&J Hutchinson

Supplier: E J Muirhead Date: 14/5/2018

Scope and purpose of the assessment:

- Asurequality assessment is a non-regulated, voluntary, and evidential certification by the supplier demonstrating equivalence with food safety standards, and also that product instructions address hazards for staff & equipment. The assessment is independently confirmed, without prejudice or guarantee, using information submitted by the supplier or from other sources. Confidentiality of the product formulation is maintained using coded material identifiers in the report, and appendices containing confidential information are provided only to the supplier.
- Scope: NZ checks (FSANZ, US FDA 21 CFR/ NSF, Food Chemicals Codex, EPA NZ, EU, French culinary listings or related data for equivalent safety). NZ background (Animal Products Act, Risk Management Programmes. Detergent & Sanitiser Manufacturer's Code of Practice, Detergent & Sanitiser Standards and Analytical Methods. Quality Manual - Assessment Procedures

Summary of assessment with risks highlighted:

- Registrations held (new AsureQuality assessment).
- Food safety/toxicity (This appeared safe & non-tainting per (1) relative safety of raw materials listed In confidential appendix / section 1.(2) intermediate volatiles properties are listed by Resene & summarised in the table (3) virtually no paint volatiles lost after 24 hours, no odour of dried paint, & presence of preservative vs micro growth (4) Resene IANZ "Determination of gas in gassing paint - no gassing. Odour assessment per APAS AP-S0215 - 4 hour samples ratio odour/offensive odour >2).
- QA (AS/NZS ISO 9000 series not sighted or required for non-contact).
- QC specs (Durability during field use was unrecorded & could be added here. Microbiological control - as above in section 1).
- Instructions –
    - TDS (Resene fast drying, low odour, single pack anticorrosive acrylic paint waterborne applied by airless spray or air assisted airless spray & not recommended as exterior coating. Benefits (water based, fast drying, covers & hides, use spray, roller or brush, low or no odour, low VOC. no solvents/ DGs or explosion risk & application attributes. Properties (Water-born acrylic grey for spray roller or brush application, recommended DFT 30 microm, WFT 80 microm, coverage 12 m2/L, 1 coat application, very hard durable fully cured, VOC -, UV poor, gloss satin, excellent adhesion, levelling, vertical holdup, apply +C. Applied as topcoat for correctly prepared steel, wood etc substrates/ Container refurbishment cleaning listed. spray equipment listed, notes & directions for use, drying & curing >10C, <75% humidity, etc details).
    - SDS (Containershield interior identifiers / contacts. Hazards (acute & chronic hazards category 3, 9.1C & 9.1D), hazardous composition (says no hazardous ingredients). Lists. Exposure controls (no numerate limits available). Properties (includes pH 8-9). Toxicology (says mostly data not available). Ecology (mostly no data available) Transport (non-DG), Regulatory (NZIoC surface coatings & colourants subsidiary hazard). Approved handler & tracking on AICS & NZIoC (says all ingredients on inventory).
- Unwanted effects (HSNO etc per SDS & EPA NZ scope. Production side effects (pass test per weight loss and odour checks above).
- Hygiene efficacy (Cleanability is n/a since touch up is prior to loading)