

Technical Data Sheet

Zinsser Grade 1 – Interior Restoration Coating

Zinsser GRADE 1™ is a high performance, self-priming finish for the interior decoration of walls and ceilings in traditional and historic buildings, including churches, castles and period properties. Zinsser Grade 1™ is formulated for interior applications where the performance of a solvent-base paint is desired but high odour levels are objectionable or not permitted. Any slight odour that is detected during application is milder than ordinary emulsion paint and will diminish quickly after application. High solids formula effectively blocks unsightly stains.

Performance characteristics –

- Solvent based stain blocking performance without odour
- Professional formula sprays through mid-sized airless pumps
- Seals difficult stains from water, fire, smoke & nicotine
- Adheres to glossy surfaces without pre-sanding or deglossing
- Bright white, non-yellowing, dead-flat finish looks great over dingy, water-stained ceilings / walls
- High pH resistance (up to 12.5) for concrete, lime based plaster, plaster, stucco and fast set joint / texture compounds
- Contains a biocide to protect the dried coating against fungal degradation.
- Vapour Permeable – allows substrate to breathe.
- Clean up with white spirits

Recommended uses-

Apply to new or previously painted interior walls, ceilings, paneling and other related paintable surfaces. Resistant to high pH surfaces (up to 12.5) including plaster, poured concrete, concrete block, stucco and 'hot' joints / texture compounds. Seals porous surfaces. Blocks difficult stains from fire and smoke damage and nicotine.

Interior Substrates-

New or previously painted drywall, cured plaster, cement, poured concrete, concrete block, stucco, wood (cedar, redwood, pine, fir, birch, oak and plywood), aluminium, iron, steel and galvanised metal. PVC, glossy laminates, powder coatings and other interior surfaces.

Exterior Substrates-

Not recommended

Adhesion-

Grade 1 adheres tenaciously to a wide range of glossy and hard-to-paint surfaces – including: glossy enamel paints, Formica, steel, aluminum, iron, PVC and ceramic tile – without tedious sanding or surfaces deglossing. *For best results on clear finishes use Zinsser B-I-N Primer Sealer.

Sprayable-

Produces an even elliptical pattern at 2500 P.S.I through a .017" tip when sprayed with a 3/4 gpm airless pump. Atomization may be further optimized: bring product to room temp (21°C) shorten spray hose and / or increase diameter of hose.

Stain Blocking-

Zinsser Grade 1™ effectively blocks stains from water, nicotine, smoke, graffiti, crayon and pencil and prevents them from bleeding into the topcoat.

Bright White Finish-

Dries to a dead-flat, bright white, washable finish that doesn't yellow over time. Blocks overhead water or nicotine stains and leave unfinished for long-lasting, bright white ceiling / wall finish.

Fire Damage-

Seals stains from water and smoke damage without strong odours making it great for occupied environments. Note: to ensure long term odour sealing, even on warm humid days use Zinsser B-I-N primer-sealer.

High pH Resistance-

May be applied to high pH surfaces (up to 12.5) without bubbling, lifting or degrading due to high alkalinity. Ideal for concrete, lime-wash, plaster and fast set joint / texture compounds.

Self Priming/ Sealing-

Can be used on new or previously painted interior drywall, cured plaster, cement, poured concrete, stucco, concrete block, limewash, distemper, metal,

most rigid plastics, glossy laminates and other paintable interior surfaces. Ideal for application to walls previously painted with builder's grade paint.

Finish-

Bright white, dead flat, non-yellowing, washable finish. Tintable to pastel / mid-tone colours.

Application-

Ready to use – no dilution necessary. In many cases only one coat is needed. Porous surfaces may require two coats to properly seal.

Cleanup-

Clean up spills and drips immediately with white spirits. Rinse application tools in white spirits immediately after use. Follow manufacturer's instructions to clean spray equipment.

Disposal-

Dispose of unused or unwanted product in accordance with local laws regulating solvent-based coatings.

Surface Preparation-

Surfaces should be clean, dry, sound and free of dust, dirt, excessive chalky material, grime, grease, oil, wax, mildew, wallpaper, adhesive or any contamination that may interfere with adhesion. If unsure, always wash surface with an appropriate cleaning solution, or solvent (Do not use tri sodium phosphate based cleaners). Remove any unsoundly adhered coatings. Sand any remaining paint film edges smooth with the surface, Attempt to remove existing stains by washing, sanding, scraping etc. Remove interior mildew with an interior mildew cleaner. Countersink exposed nail heads, spot-prime and fill with Zinsser Ready Patch. Remove rust and wipe metal with a cloth dampened in alcohol. Clean new galvanised metal with methalated spirit with a final rinse in vinegar to remove oils. Spot prime knots and sap streaks with Zinsser B-I-N primer-sealer before priming full surface with Zinsser AllCoat.

Warnings-

Consult product safety data sheet.

Limitations-

Grade 1™ is not intended for exterior surfaces or for application on floors, decks, roof surfaces or any surface subjects to immersion or prolonged contact with water. These limitations are not to be construed as all-inclusive.

Precautions-

To prevent product from skinning over close container after each use: keep lid tightly closed during storage. Protect from freezing. If contents freezes thaw to room temperature before using.

Application Data-

Brush, roller or pad: natural bristle or lambskin

Airless Spray: .017" tip @ 2200-2800 psi, minimum pump size: 3/4 G.P.N

Practical Spread rate: 45 - 55m² per 5L

Application conditions:

Temperature range: 4° - 32°C

Relative humidity: 10% - 85%

Substrate Moisture: 12% max moisture content

Dry time (24°C)

To touch: 30 mins

To recoat: 2hrs

Stain sealing: 2hrs

Full scrape cure: 7 days

Tinting: Up to 40ml universal colourant per 5L

Cleanup-

White spirits. If dried on tools, let soak overnight.

Follow spray equipment manufacturers instructions to cleanup spray equipment.

Specification Data-

Solids by weight: > 78.8%

Solids by volume: > 55%

Density: 1.6g/L

Viscosity range: 85 - 90 KU

Theoretical spread rate: 10m² per L

Gloss @ 60° / 7 day cure: < 5°

Wet adhesion: pass 2000 cycles

Flexibility / 7 day cure (3 / 8" Mandrel): Pass / 4A

Flash Point (ASTM-D3278): 41°C

VOC less than: 350grams / litre

Freeze / thaw stable: yes

Shelf Life: 2 years in unopened containers

Storage / handling: Store indoors 4°C - 27°C