Permeable Paint Internal datasheet

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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), aluminuim, 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, non-yellowing, flat matt finish ideal for stained and discoloured ceilings and walls.

Application-
Shake or stir well before using. Apply with a quality brush and / or roller or airless sprayer. Keep container closed when not in use. Do not thin.

Coverage-
Approximately 10m per litre at 40 microns DFT on smooth surfaces. Coverage will vary according to the porosity of the surface and method of application.

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. Use Zinsser BIN Brush Cleaner to remove dried paint from brushes.

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

Surface Preparation-
Surfaces should be clean, dry, sounds and free of dust, dirt, 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 and allow to dry out thoroughly before painting. Remove excessive chalky material and any unsoundly adhered coatings. Remove mould with an appropriate an cleaner, such as Zinsser Mould Killer & Remover. **Special precautions should be taken during the surface preparation of pre 1960's paint surfaces over wood and metal as they may contain harmful lead. When dry-sanding avoid dust inhalation by wearing a suitable protective face mask**. Seal knots and sap streaks with Zinsser B-I-N® primer-sealer.

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 - 55m^2 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 48ml universal colourant per litre of paint.

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

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