

EnduraGuard 33 AG

Gloss, clear is a two component, high-solids, low VOC, cross-linked, aliphatic polyurethane coating possessing outstanding resistance to harsh environmental conditions; graffiti; mold, mildew & microbe growth; caustic chemicals; abrasion; impact; and flexing.

EnduraGuard 33 is resistant to the effects of U-V and I-R: clear will not yellow, clear-coated underlying colors and custom-tinted **EnduraGuard 33** will not noticeably fade for 10-years. **EnduraGuard 33** has proven flexibility and tolerance to expansion & contraction, providing a crack-resistant surface, desirable in harsh environments such as salt-air coastal, high heat desert, frigid mountainous, and high humidity of the Northwest & the Southeast.

EnduraGuard 33 is completely resistant to hydraulic, lubricating and cutting oils, alcohols, food stains, normal acids & alkalis, salts, solvents, fuels, paints, inks, asphalt, wet concrete, algae, mildew, fungal molds, pesticides, fertilizers, creosote, etc., and temperatures to 450 F.

EnduraGuard 33 is Approved and *specified* as a *Graffiti-Resistant* clearcoat for traffic signs & soundwalls, and is impervious to most graffiti solvents & pigments, cleaning efficiently with approved graffiti removers, such as **EG 1 Cleaner**.

Approvals & Specifications:

(under same formula but private labeled for CalTrans)

Office of Materials Engineering & Testing Svcs.

*CalTrans Lab Approval Report: **EnduraGuard 33 Gloss, clear** exceeds standard testing, plus 3000 hrs Xenon-arc weatherometer. Andy Rogerson, Sr. Chemical Test Engineer.*

Office of Materials and Foundation

*CalTrans Letter of Certification: **EnduraGuard 33** meeting all requirements for graffiti coating. Lee Taubeneck, Sr. Transport Engineer.*

DGS/Procurement Division

*CalTrans Invitation for Bid - Solicitation Aluminum Single Sheet and Laminated Panel, Ground-Mounted Signs; and Aluminum Single Sheet Formed Signs; and Laminated Panel Signs for Overhead Structures. **EnduraGuard 33** specified as only *Spray-On Coating*. George Hortin, Buyer.*

Walt Disney Imagineering

***EnduraGuard 33** specified as graffiti-resistant coating for dedicated signs, soundwalls, parking structures, "flyovers", bridges, etc., for new CalTrans District 12 I-5 construction, and all other Disney locations.*

Typical Approvals & Specifications:

City of Los Angeles

*1) Operation Clean Sweep, Dept. of Public Works to Bureau of Street Maint, recommends specifying **EnduraGuard 33** as a tested and approved graffiti-resistant, Bus Chrome yellow, or clearcoat, for new heavy equipment purchases.*

*2.) Dept of Public Works, Specifications for Rotary Street Sweepers, specifying **EnduraGuard 33** as approved coating.*

County of Los Angeles

EnduraGuard 33 specified by County Architect as permanent graffiti-resistant clearcoat for new construction of Health Centers & other structures.

City of Las Vegas

*Street Department Sign Shop letter attesting to superior performance and cost efficiency of **EnduraGuard 33** protected traffic signs.*

Daniel, Mann, Johnson, Mendenhall

***EnduraGuard 33** specified as graffiti-resistant architectural coating.*

HDR Engineering

***EnduraGuard 33** specified as marine environment corrosion- and graffiti-resistant coating for steel train bridge & concrete abutments on *Coaster* route.*



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940-300-5563

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City of Gardena

EnduraGuard 33 specified as graffiti-resistant coating for monuments & other structures.

City of Inglewood

EnduraGuard1 specified as graffiti-resistant coating for murals, playground equipment, monuments, and other structures.

Physical Properties

V.O.C.
tinted:192 grams/liter (1.6 lbs/gal)
clear:228 grams/liter (1.9 lbs/gal)
SCAQMD Rating: Extreme Performance Coating per Rule 1107 para (12); Indust. Maint. Graffiti Coating per Rule 1113 para (17).

Coverage - theoretical: 1280 ft²/gal at 1-mil DFT.
actual on metal: @ 212 ft²/gal at 4-mil DFT.
actual on porous: @ 125 ft²/gal at 4-mil DFT.

Solid Content (by wt): 80% (clear) -85% (tinted)
Consistency: Brushable/Sprayable
"Pot" Life approx. 2-hr at 75°F
"Re-coat" Time approx. 45-min at 75°F
"Tack Free" Time approx. 2-hr at 75°F
"Stack" Time approx. 8-hr at 75°
"Full Cure" Time approx. 72-hr at 75°

Adhesion: Excellent on: metals, wood, concrete, masonry, rubber, vinyl flooring, tile, etc.

Tensile strength: 6,000 P.S.I.
Elongation: 100%
M.E.K. 100-rub test: Pass
Impact resistance: Excellent: 1-lb. ball/5-ft drop: No chipping or cracking.
Excellent: 180° bend over 1/8" mandrel: No chip/cracking.

Taber abrasion: Outstanding: Taber Abrader with CS-1' wheel and 1 kg pressure. Film loss: 1-mil per 13,000 revolutions.

Salt-spray: No film deterioration/lifting after 1,500 hours at 90°F and 20% salt solution.

Weather resistance: Excellent.
5-Year Warranty: See Limited Warranty

INDEPENDENT VERIFICATION

To verify and certify the efficiency of the biocide used in ***EnduraGuard 33** to inhibit spores, fungus, molds, and similar microbes. The following table is derived from this standardized study:

**Riedel-deHaen
Dry Film Mildewcide Test**

Sample	Rating	Status
* EnduraGuard 33	1	Pass
Generic Polyurethane Coating #1	5	Fail
Generic Polyurethane Coating #2	4	Fail
Petri-Agar Control	6	Control

Conclusion:

The present level of *AMICAL Flowable* is sufficient to protect **EnduraGuard 33** from fungal attack, resulting in NO microbial growth@.

Ratings:

- 1 = Coating NOT molded, zone of fungal inhibition around test sample greater than 3-mm.
- 2 = Coating NOT molded, zone of fungal inhibition around test sample less than 3-mm.
- 3 = Coating NOT molded, no zone of fungal inhibition around sample.
- 4 = Coating slightly grown over: less than 10%.
- 5 = Coating clearly grown over: less than 30%.
- 6 = Coating heavily grown over: more than 30%.

While we believe that the data contained herein is factual, and the opinions expressed are those of qualified experts regarding the results of the tests conducted, the data is not to be taken as a guarantee of performance, nor a warranty of representation, either expressed or implied, for which we assume legal responsibility. This information relates to the specific material designated, and may not be valid for such material used in combination with any other materials, or in any process. Such information, to the best of our knowledge and belief, is accurate and reliable as of the date compiled. It is offered solely for client consideration and verification. Any use of this data and information, must be determined by the user, to be in accordance with applicable Federal, State and local laws & regulations. Neither Infinite Coatings, nor its distributors or agents, will be liable under any circumstances or conditions, either expressed or implied, for damages in excess of the purchase price of this product.

Protecting Today with Tomorrow's Technologies