KrystalKote[™] DATA SHEET

KrystalKote[™] is a two-component, high-solids, low VOC, cross-linked, aliphatic polyurethane coating possessing outstanding resistance to harsh environmental conditions, graffiti, caustic chemicals, abrasion, impact, & flexing. Available in Clear gloss or satin; Custom (tinted) in semi-gloss, satin, or flat; and slip-resistant KrystalTred[™]. KrystalKote[™] is resistant to the effects of U-V and I-R: dear will not yellow, and colors will not noticeably fade for 5/7/10 years. KrystalKote[™] has proven flexibility and tolerance to expansion & contraction, providing a crack-resistant surface, desirable in harsh environments such as heavy construction equipment, shipboard and marine exposure. KrystalKote[™] is completely resistant to hydraulic, lubricating and cutting oils, alcohols, food stains, normal acids & alkalies, salts, solvents, fuels, paints, inks, asphalt, wet concrete, algae, pesticides, fertilizers, creosote, CCA, & all pressure treating chemicals, and temperatures to 450°F. KrystalKote[™] is USDA-Approved for use in food processing plants & food handling environments, and exceeds EPA and all State requirements as a completely chemical impervious coating for lumber industry drip pads. KrystalKote[™] CalTrans Formula is CalTrans-Approved and specified as a Graffiti-Resistant clearcoat for traffic signs & soundwalls, is impervious to graffiti solvents & pigments, and cleans efficiently with approved cleaners, such as GT-1000[™] or GT-2000[™].

Product Selection

KrystalKote[™] **Clear** is an ideal coating for element-exposed and graffiti-prone fixtures, such as traffic signs, aggregate and metal light poles, monuments, murals and commercial signs. **Clear** will not yellow and will protect underlying colors from fading.

KrystalKote[™] Custom can shield traffic control boxes, heavy construction equipment, maintenance vehicles, bridges, block walls, etc., against graffiti and weathering. Custom-matched colors will not noticeably fade or discolor for five to ten years. KrystalKote[™] forms a non-porous, monolithic surface, resulting in a very low co-efficient of friction.

KrystalTred[™] is chemically-puckered, to increase traction under all conditions, for use on sidewalks, locker room floors, shower areas, pool decks, transit bus floors, truck beds, loading ramps, garage & hangar floors, catwalks, fire escapes, vehicle running boards, kennels, boat decks, marina and dock facilities. **TexShel**[®], a porous, natural organic aggregate, may be added for maximum traction.

KrystalKote[™] exhibits excellent durability and high resistance to impact, cracking, chalking, yellowing, abrasion, graffiti, normal wear & tear, and weathering in general. Low V.O.C. qualifies KrystalKote[™] as an SCAQMD Extreme-Performance Coating, as outlined in Rule 1107 Definition (12).

Coverage

One gallon of **KrystalKote**[™] covers approximately 850 sq.ft. (field use) at 1-mil Dry Film Thickness (DFT). Recommended DFT is 3.5-mil to 4-mil. **KrystalTred**[™] in two coats is recommended for a DFT of 7-mil to 9-mil.

Surface Preparation

KrystalKote[™] must be applied to a clean surface: no oil, grease, dust, powder, water or any contaminants permissible. All rust and millscale must be removed. Acid wash or shotblasting may be required, followed by a water wash to remove excess chemicals and residue. The surface must be absolutely dry before application of KrystalKote[™]. Water-based or epoxy primer may be used for some metals, and a paintable penetrating sealer, such as KrystalSeal[™], may be used on concrete, block or wood, prior to KrystalKote[™] application. At least 24 hours is recommended between primer/sealer and topcoat.

Mixing

KrystalKote[™] is supplied in two parts, which must be mixed before use. Use caution while mixing: both materials are flammable, as is the mix. Do not attempt to mix or use below 40°F or above 110°F. **KrystalKote**[™] comes pre-proportioned by weight: 10 parts Base to 3 parts Curing Agent for Clear and 3 parts Base to 1 part Curing Agent for Custom and Each "Base" container will have an appropriate "Curing Agent" component. At least 5 minutes of moderate speed mixing should be used; longer for large quantities or if pigmented, as it may settle in transit. Mixing should be done on-site and with ventilation. If the temperature is between 40°F -65°F, a cold-weather catalyst is required; and between 85°F - 110°F, a hot-weather retarder may be used as per the table on the reverse sheet. Do not mix more than can be applied in the appropriate potlife time per Curing Time / Temperature Table.

(over)

Application

Use caution during spray application, as air-borne **KrystalKote**™ is flammable. All standard painting equipment can be used. Acetone, M.E.K., or an approved polyurethane reducer, may be used to reduce **KrystalKote**™ to sprayable consistency to reduce "orange peel" and "fish eye". A "thin" first coat may be applied and then allowed to "tack" dry in @ 45 minutes at 77°F. A final coat can then be applied at a right angle to the first coat. Or a multidirectional, single "normal" coat of **approx**. **5-mil WFT** (approx. 4-mil DFT) may be applied with caution to guard against vertical "sagging". Stack time is approx. 8-hours, and final cure time is approx. 72-hours. Guidelines for lettering, decals and trim application times available upon request.

Cleanup

Before **KrystalKote**[™] cures, tools & equipment may be cleaned with: Acetone, Toluene; M.E.K.; Lacquer thinner; or an approved low-VOC reducer/cleaner.

Colors & Finish

KrystalKote[™] Custom and KrystalTred[™] can be color-matched to nearly any homogenous color sample. Standard colors are clear, white, black, and gray. All colors available in gloss. Medium-tones and clear available in satin. Only light-tone colors available in flat. Custom colors require 4-gallon minimum order.

Packaging

KrystalKote[™] is supplied in 1-gallon cans, four each 1-gallon cases, 4-gallon kits, and 55-gallon drums, complete with separate, proportioned curing agent. Other packaging options are available. Color and finish, cold-weather catalyst or hot-weather retarder must be specified at time of order.

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 TradeW inds International, Inc., nor it's 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.

Manufactured for:

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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.

Flexibility: Excellent: 180° bend over 1/8"

mandrel: No chip/cracking.

Taber abrasion: Outstanding: Taber Abrader

with CS-17 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.

Temperature Extremes Table

Cataly st (per gallon)

Below 40°F Do not mix or apply 40°-45°F 2 tables poons 45°-55°F 1 tables poon 55°-65°F 1 teaspoon

Retarder (per gallon)

Above 110°F Do not mix or apply

Your Distributor:

KK-INDUSTRIAL: DATA.7127/01/2000