Kem Kromik®

Universal Metal Primer

B50NZ0006 Brown, B50WZ0001 Off White, B50AZ0006 Grav



CHARACTERISTICS

KEM KROMIK UNIVERSAL METAL PRIMER is a rust inhibiting, modified phenolic alkyd resin primer designed for use over iron and steel substrates. Can be used as a universal primer under high performance topcoats. Suitable as a barrier coat over conventional coatings which would normally be attacked by strong solvents in high performance coatings.

For use on properly prepared: Steel

Features:

- High film build to protect sand blasted steel
- Corrosion resistant
- Universal, can be topcoated with epoxies and urethanes
- Exterior-interior metal primer
- Suitable for use in USDA inspected facilities

Recommended for use in:

- Barrier coating Shopcoat primer Maintenance primer Hand rail Storage tanks Structural steel Machinery Bar joists
- Marine véssels Steel pipe

Color: Brown, Off White,

Recommended Spreading Rate per coat:

(B50NZ0006 varies by base)

6.0-8.0 Wet mils: Dry mils: 3.2-4.2 Coverage sq. ft. per gallon: 202-265 Theoretical coverage: sq. ft.

per gallon @ 1 mil dry

Approximate spreading rates are calculated on volume solids and do not include any application loss. Note: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

Drying Schedule @ 6.0 mils wet, @ 50% RH: @110°F @40°F @77°F

	_		_
To touch:	2 hour	30 min.	15 min.
Tack handle:	2.5 hours	1 hour	20 min.
To recoat:	2.5 hours	1 hour	45 min.
with itself and alkyds			
To recoat:*	36 hours	16 hours	16 hours
To recoat:	48-72 hours	48-72 hours	48-72 hours
with acrylic latex paint	S		
Cure time	7 days	7 days	7 days
	-		-

* Recoat with hot solvent urethane or epoxies or high performance coatings

Drying, and recoat times are temperature, humidity, and film thickness dependent.

Tinting: Do Not Tint

Finish: Flat

Brown B50NZ0006 (may vary by color)

V.O.C. (less exempt solvents):

408 grams per litre; 3.40 lbs. per gallon

As per 40 CFR 59,406 **Volume Solids:** 53 ± 2% 73 ± 2% Weight Solids: Weight per Gallon: 12.70 lb

Flash Point: 80°F PMCC Shelf Life: 36 months, unopened

COMPLIANCE

As of 06/30/2021, Complies with:

OTC	No
OTC Phase II	No
S.C.A.Q.M.D.	No
CARB	No
CARB SCM 2007	No
CARB SCM 2020	No
Canada	No
LEED® v4 & v4.1 Emissions	No
LEED® v4 & v4.1 V.O.C.	No
EPD-NSF® Certified	No
MIR-Manufacturer Inventory	No
MPI [®]	Yes

APPLICATION

Temperature:

40°F / 4.4°C minimum maximum 120°F / 49°C air, surface, and material

At least 5°F above dew point

Relative humidity: 85% maximum

The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compatible with the existing environmental and application conditions

Reducer: Not recommended Xylene,R2K4

Airless Spray: 1800-3000 p.s.i. Pressure Hose 1/4 inch I.D. .015-.019 inch Tip Filter 60 mesh

Conventional Spray: Binks 95 Natural Bristle Brush 3/8 inch woven with solvent resistant core **Roller Cover**

If specific application equipment is listed above, equivalent equipment may be substituted.

Apply paint at the recommended film thickness Apply paint at the recommended limit thickness and spreading rate as indicated on front page. Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance. Spreading rates are calculated on volume solids and do not include an application loss factor due to surface profile, roughness, or porosity of the surface, skill, and technique of the applicator, method of application, various surface irregularities, material lost during mixing, spillage, over thinning, climatic conditions, and excessive film build.

Mix paint thoroughly to a uniform consistency with slow speed power agitation prior to use.

Stripe coat crevices, welds, and sharp angles to prevent early failure in these areas. When using spray application, use a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes. If necessary, cross spray at a right angle.

Not recommended for immersion service or exposure to acids, alkalis, or strong solvents.

Intimate contact with the steel surface and primer is necessary for adequate rust inhibition and adhesion.

For maximum adhesion, acrylic topcoats require 48 - 72 hours drying of primer.

SPECIFICATIONS

Steel:

1 coat Kem Kromik Universal Primer 2 coats Topcoat

Acceptable Topcoats:

Acrolon 218 HS Polyurethane Hi-Solids Polyurethane Industrial Enamel Macropoxy 646 Epoxy Macropoxy HS Epoxy Metalatex Semi-Gloss Enamel

Pro Industrial Acrylic

Pro Industrial Waterbased Epoxy

Pro Industrial Waterbased Alkyd-Urethane

Pro Industrial Multi-Surface Acrylic

Pro Industrial Pre-Catalyzed Epoxy & Urethane

Pro Industrial Urethane Alkyd Enamel Pro Industrial Waterbased Acrolon 100

Sher-Cryl

Silver-Brite Aluminum Steel Master 9500 Tile-Clad HS Epoxy

The systems listed above are representative of the product's use, other systems may be appropriate. Other primers may be appropriate.

Kem Kromik®

Universal Metal Primer

SURFACE PREPARATION

WARNING! Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

Remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Existing peeled or checked paint should be scraped and sanded to a sound surface. Glossy surfaces should be sanded dull. Stains from water, smoke, ink, pencil, grease, etc. should be sealed with the appropriate primer-sealer. Recognize that any surface preparation short of total removal of the old coating may compromise the service length

of the system from & Steel- Minimum surface preparation is Hand Tool Clean per SSPC-SP2. Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. For better performance, use Commercial Blast Cleaning per SSPC-SP6-NACE 3, blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2 mils). Prime any bare steel within 8 hours or before flash rusting occurs.

Previously Painted Surfaces - If in sound condition, clean the surface of all foreign material. Smooth, hard or glossy coatings and surfaces should be dulled by abrading the surface. Apply a test area, allowing paint to dry one week before testing adhesion. If adhesion is poor, additional abrasion of the surface and/or removal of the previous coating may be necessary. Retest surface for adhesion. If paint is peeling or badly weathered, clean surface to sound substrate and treat as a new surface as above. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

Other substrates may or may not be appropriate. If a specific substrate is not listed above, consult your Sherwin-Williams representative for more information.

As a "Barrier" Coat - If it is necessary to topcoat a previously painted surface with chemically resistant or strong solvent topcoats, Kem Kromik Universal Metal Primer can be used as a barrier coat to help reduce lifting. Apply a coat of Kem Kromik Universal Metal Primer to a small area to test for adhesion or bleeding. If there is evidence of either poor adhesion or bleeding, clean surface to bare steel and apply recommended system.

Ductile Iron Pipe Atmospheric Service: Minimum surface preparation is power tool clean per National Association of Pipe Fabricators (NAPF) standards. First remove all oil and grease from surface by Solvent Cleaning per NAPF 500-03-01. Then power tool clean per NAPF 500-03-03. All existing coatings must be removed prior to priming. This includes but not limited to shop primers, asphaltic coatings or casting agents. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

Ductile Iron Fittings Atmospheric Service: Minimum surface preparation is abrasive blast cleaning per NAPF standards. First remove all oil and grease from surface by Solvent Cleaning NAPF 500-03-01. Then abrasive blast cleaning per NAPF 500-03-05.

SURFACE PREPARATION

Mildew - Prior to attempting to remove mildew, it is always recommended to test any cleaner on a small, inconspicuous area prior to use. Bleach and bleaching type cleaners may damage or discolor existing paint films. Bleach alternative cleaning solutions may be advised.

Mildew may be removed before painting by washing with a solution of 1 part liquid bleach and 3 parts water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with water and allow the surface to dry before painting. Wear protective eyewear, waterproof gloves, and protective clothing. Quickly wash off any of the mixture that comes in contact with your skin. Do not add detergents or ammonia to the bleachwater solution.

PERFORMANCE

Off White B50WZ0001

System Tested: (unless otherwise indicated)
Substrate: Steel
Surface Preparation: SSPC-SP6-NACE 3
Primer: 1 coat Kem Kromik @ 4.5-5 Mils W.F.T.

Adhesion:

Method: ASTM D3359
Result: 48

Corrosion Resistance:

Method: ASTM D5894, 1008 Result: Pass

Dry Heat Resistance

Method: ASTM D2485 Result: 200°F

Flexibility:

Method: ASTM D522, 1/4 inch mandrel Result: Pass

Fineness of grind1:

Method: Hegman Result: 4 Hegman minimum

Sag Test1:

Method: ASTM D4400 Result: 12 mils minimum

Viscosity1:

Method: Krebs Units Result: 84-94 KU

Water Resistance:

Result: Pass

¹ Standard test based on Certificate of Analysis

SAFETY PRECAUTIONS

Before using, carefully read **CAUTIONS** on label. Refer to the Safety Data Sheets (SDSs) before use.

FOR PROFESSIONAL USE ONLY.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

CLEANUP INFORMATION

Clean spills, spatters & tools with compliant cleanup solvent. After cleaning, flush spray equipment with compliant cleanup solvent to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using solvents.

DANGER: Rags, steel wool, other waste soaked with this product, and sanding residue may spontaneously catch fire if improperly discarded. Immediately place rags, steel wool, other waste soaked with this product, and sanding residue in a sealed, water-filled, metal container. Dispose of in accordance with local fire regulations.

HOTW 06/30/2021 B50NZ0006 43 408 HOTW 06/30/2021 B50WZ0001 40 389 HOTW 06/30/2021 B50AZ0006 22 387

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative or visit www.paintdocs.com to obtain the most current version of the PDS and/or an SDS.