

PRODUCT DESCRIPTION:

MET-L-MATE® W4K289 is a ready-to-use conversion coating. W4K289 deposits a layer of zinc phosphate on the metal surface for excellent corrosion resistance and to promote paint adhesion.

TECHNICAL DATA:

• Color	Clear, colorless	• Freezing point	32°F
• Photochemically reactive	No	• Flash point	None
• Viscosity	Consistency of water	• Treatment area	1,600 sq. ft./ gallon

SUITABLE SUBSTRATES:

Cold rolled steel, iron, long terne (lead coated), spangled and minimum spangled galvanized steel*, Galvaneal steel, or PAINT-GRIP®¹.

**Note: With the inconsistencies of galvanized steel, consult your Sherwin-Williams representative for substrate testing and system recommendations.*

SURFACE PREPARATION:

1. To remove dirt and water-soluble contaminants, wash with mild detergent and hot water. Rinse well and wipe dry with a clean cloth.
2. To remove grease, oil, and other solvent soluble contaminants, solvent clean metal substrate with SHER-WILL-CLEAN® Solvent Cleaner R7K156 or AQUA-MATE™ Low VOC Surface Cleaner W4K157. Wipe dry with a clean cloth.
3. Remove rust and oxidation by sanding or grinding.
4. Apply MET-L-ETCH® W4K288 to further remove oxidation or rust.
5. If metal is heavily rusted, pitted, or oxidized, remove by sandblasting to obtain a rust free, white metal surface. Do not use MET-L-ETCH® W4K288 if metal has been sandblasted.

(For the above products refer to product label or data page for complete information)

MIXING:

None, use at package consistency.

APPLICATION:

1. Protect areas not to be treated with polyethylene sheets and masking tape. Apply masking tape to seams into which solution may collect. Do not allow W4K289 to enter seams or collect in areas that can not be properly rinsed and dried.
2. Apply W4K289 to bare metal by brush, spray, **gray nylon scuff pad** or dip. **Keep surface wet for one-three minutes. If surface is allowed to dry, re-wet with W4K289 for an additional one-three minutes.**
3. Rinse well with clean water. Water should curtain with no breaks or beading; if this occurs, repeat step 2.
4. Blow dry with clean, high pressure air.

Note: Do not use MET-L-MATE® W4K289 below 60°F.

RECOATING:

1. Recoat with primer system within four hours of metal conditioner application.
2. Follow with a Sherwin-Williams Automotive topcoat compatible with the primer system.

NOTING:

1. MET-L-ETCH® W4K288 contains phosphoric acid. Read and follow all label cautions. Wear protective clothing, rubber gloves, and eyewear.
2. **Store in plastic containers only.** Do not use metal containers.
3. Do not apply with steel wool. Use nylon scuff pad when abrasive action is needed.
4. Protect MET-L-ETCH® W4K288 from freezing.
5. For maximum corrosion protection, MET-L-MATE® W4K289 may be used as a pretreatment prior to spraying E2G983 (only for chromate free E2G983). **W4K289 is best applied with a gray nylon scuff pad.**

¹PAINT-GRIP® is a registered trademark of the ARMCO STEEL Corporation.

PRODUCT AT-A-GLANCE

PRODUCT

MET-L-MATE® Phosphate Conversion Coating

W4K289

USE

- Deposits a zinc phosphate conversion coating.
- Promotes paint adhesion.
- Provides excellent corrosion protection.
- Prevents flash rusting before priming.
- Easy to use with no mixing.

SUITABLE SUBSTRATES

- Cold rolled steel
- Iron
- Galvaneal Steel
- Galvanized Steel*
- Long terme (lead coated steel)
- Paint-Grip®

**Note: With the inconsistencies of galvanized steel, consult your Sherwin-Williams representative for substrate testing and system recommendations*

SURFACE PREPARATION

- **Wash** with mild detergent and hot water, rinse well, and wipe dry with a clean dry cloth.
- **Solvent clean** with the SHER-WILL-CLEAN® Solvent Cleaner R7K156 or AQUA-MATE® Low VOC Surface Cleaner W4K157.
- **Remove** heavy rust by sandblasting, sanding, or grinding to white metal.
- **Pre-treat** oxidized steel with MET-L-ETCH® W4K288. Do not apply W4K288 if the metal has been sandblasted.

MIXING

- **None**, use at package consistency.

APPLICATION

- Apply full strength solution by brush, spray, **gray nylon scuff pad** or by dipping part in solution.
- Allow contact for 1-3 minutes. Do not allow solution to dry, if it does re-apply.
- When rinsing, water should curtain without breaks. If this occurs, repeat application.
- Rinse well with clean water.
- Blow dry with clean, high pressure air.

RECOAT

Sealers

ULTRA-FILL II® Sealer
JET SEAL® Primer-Sealer
PRIME-SHIELD® 4.6 Epoxy
PRIME-SHIELD® Urethane
SHER-JET™ 3.5 Enamel Sealer
SHER-LOK™ 3.5 Epoxy

Primer-Surfacers

ULTRA-FILL II® Primer-Surfacer
COLOR-PRIME® Tintable Primer-Surfacer
ULTRA-FILL® Acrylic Primer-Surfacer
SuperCOMBO® Primer-Surfacer
ULTRA-FILL® HS Primer -Surfacer
ULTRA-FILL® HS/NP Primers

NOTES

- Do not sand conversion coating or it will be removed.
- Store in plastic containers. Do not use metal containers.
- MET-L-MATE® contains acid. Handle with care.
- Protect MET-L-MATE® W4K289 from freezing.
- Do not apply with steel wool. Use gray nylon scuff pad when abrasive action is needed.

PERSONAL PROTECTION

- Read all label directions before use.
- Refer to MSDS for specific information.
- Wear an air purifying respirator.
- Wear a dust particulate mask when sanding.
- Wear safety goggles, gloves, coveralls, shoe covers, and faceshield.

To learn more about Sherwin-Williams Automotive products, visit our Web site at www.sherwin-automotive.com

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