

## Product Description, Application and Maintenance for TEKKŌ™

TEKKŌ Steel is a Zinc Magnesium hot dipped coated Steel (G115)

TEKKŌ Zinc is 99.995% pure zinc alloyed with a small amount of copper and Titanium per EN Norm B69

TEKKŌ Metals are meant to be used in a exterior wall or roof cladding application using rainscreen and back ventilation principles. We recommend Breezemat® for flat seam and standing seam panels to achieve this in the most cost-effective manner.

TEKKŌ Surfaces are available with five surface aspects (colors) Kuro (black) Mokutan (charcoal) AO (Grey) Hai-Iro (blue grey) and Gin-Iro (Silver). The material will naturally vary from sheet to sheet and batch to batch a homogenous color is not possible and should not be expected.

Depending on what effect is desired the variations can be managed several different ways:

- Presort panels from dark to light to be installed in a set order
- Obtain color values and sort accordingly
- Install how they come out of the crate with no concern as to the relationship between light and dark panels.

For cleaning we recommend a mild mixture of dawn dish detergent and warm water applied with a masonry sponge to remove light oils or grime that may have been picked up.

Care must be exhibited during the cleaning process. Improper cleaning methods may damage the finish or material.

Do not use abrasives of any kind during the cleaning process.

The Corrosion inhibiting chemicals contained with the TEKKŌ Surfaces react with the zinc surface creating a covalent bond through the sharing of electron pairs between atoms- known as shared pairs or bonding pairs, TEKKŌ Surfaces are thin, the pigments themselves do not chemically react with the zinc substrate- rather they get tied up in the binder and reacting chemicals, a portion of the pigment that is not fully encapsulated (peaks above the film) can be removed with abrasive action or strong scrubbing.

Ensure that debris and deleterious material do not accumulate on the TEKKŌ Surfaces

Do not allow for standing or ponding water to accumulate on the TEKKŌ Surfaces

Standing water can cause discoloration, the corrosion inhibiting chemicals that make up TEKKŌ Surfaces are made up of reacted and unreacted portions which give it the ability to “self-heal” by unreacted material migrating to the exposed zinc in the presence of an electrolyte. Water can act as a transport for some unreactive material resulting in a change or shifting color.

TEKKŌ Metals are shipped without PVC film to meet the Living Building Challenge [living-future.org](http://living-future.org) We recommend that you apply PVC film to the tooling on brakes. The TEKKŌ Surfaces are robust and can be roll formed without protective film. Finished panels should be shipped using paper interleaf, Sheets are shipped with paper interleaf as you will find with copper and brasses.

TEKKŌ Metals will have stop start points if ordering coils, these are tagged so that they can be removed prior to fabricating parts, they do not pose a problem from a protection aspect but are visually unappealing. TEKKŌ Metals will remove stop start transitions when ordering sheets.

If you have film applied ensure that the tag areas are removed or marked, remove film from panels prior to installation and inspect surfaces.

As with all Zinc products, fingerprints will occur if handling without gloves, fingerprints on the metal surface cannot be mechanically removed, over time natural weathering will obscure fingerprints.

Smudges, grease, oil, or adhesives on the material surfaces can be removed by applying Strub oil, Citrus oil cleaner, Rapid Remover [www.rapidtac.com](http://www.rapidtac.com)

e: [info@tekkometals.com](mailto:info@tekkometals.com)

w: [www.tekkometals.com](http://www.tekkometals.com)