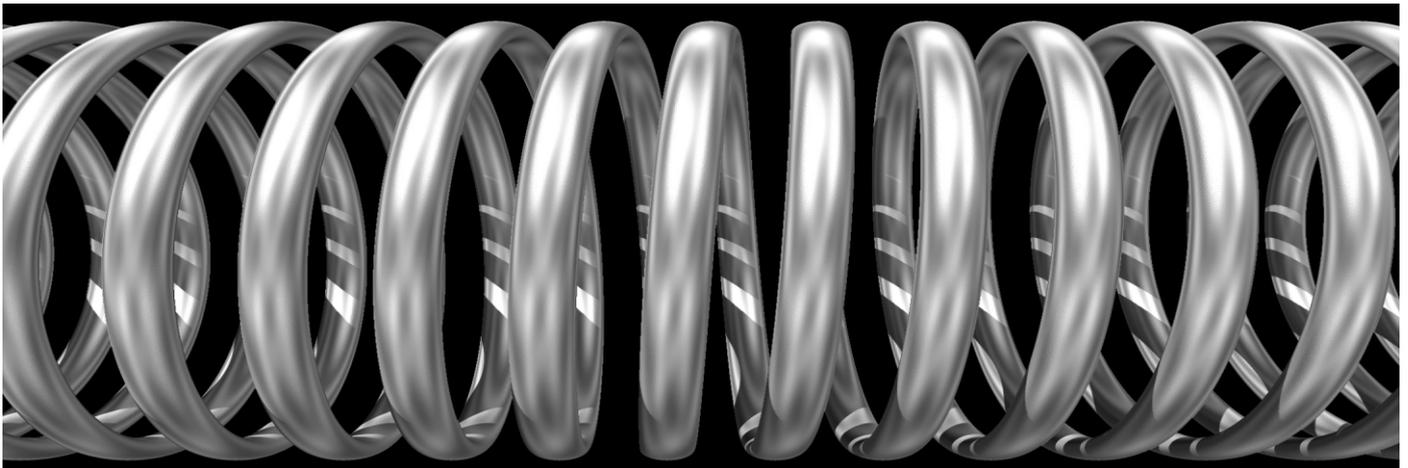


## TECHNICAL DATA SHEET

# AC-X

Thin Film Anti-Corrosive Coating for Direct to Metal Application. AC-X is a nano-composite polymeric material based on Sol-gel chemistry when applied as transparent coating on metal substrates protects the metals from various corrosive media. The material produces a mechanically robust thin film with anti-corrosive properties. This coating has excellent mechanical, weather resistance and chemical resistance. These coatings are particularly suitable for direct to metal application and designer surfaces in metal structures, household appliances and car bodies. AC-X can also be used as a replacement of electrode-position (ED) coating and conventional chemical conversion coating like  $\text{Cr}^{+6}$  or  $\text{Cr}^{+3}$  metal pretreatment. It also shows very good adhesion with the powder coating or any other convention paint system over it.



### Typical applications

- + Direct to metal application (Galvanized Steel, Phosphated steel, Carbon steel, Aluminum)
- + Metal structures, households appliances
- + Automotive car bodies, Underbody structure
- + Nuts & Bolts and other galvanized articles

### Features & Benefits

**Color:** colorless translucent liquid  
**% Active ingredient:**  $40 \pm 2\%$   
**Specific Gravity:**  $0.92 \pm 0.03$   
**Viscosity at 30°C:**  $16 \pm 2$  cPs  
**Drying time:** 20-30 minutes @ 120°C  
(air circulating oven)  
**Dry film thickness:** 6-15 micron  
**Application method:** Spray or dip  
(spray method recommended for ac coils)

### Technical information

- + Enhance productivity by replacing seven tank electrode-position (ED) coating
- + Replacement of conventional chemical conversion coating like  $\text{Cr}^{+6}$  or  $\text{Cr}^{+3}$  metal pretreatment
- + Excellent adhesion and film hardness
- + Excellent salt spray resistance
- + Excellent weather resistance
- + Excellent mechanical properties
- + Scratch Resistance
- + High abrasion resistance
- + Good resistance against chemicals, acids and alkaline cleaners
- + Meets as per ROHS Compliance guidelines

---

# TECHNICAL DATA SHEET

## AC-X

---

### Application Guidelines

#### Surface preparation

---

The surface of the pretreated substrate has to be cleaned thoroughly from deposits like finger prints, debris particles from release and slip agents or other process aids left from the manufacturing step.

#### Precautions & limitations

---

- + Don't apply materials below dew point and above 50°C
- + **COMBUSTIBLE:** Keep material away from open flame
- + Avoid rain during application till the surface is dried
- + Use proper protective equipment while handling
- + Avoid direct contact with skin and eyes. In case of contact wash thoroughly with plenty of water and Consult physician if necessary

#### Mixing and Application

---

- + ULTRACORR ACX-AL is ready to use and requires no pre mixing for heat cure. For Room Temperature (RT) cure, order special ULTRACOR Hardener (Mix ratio ACX-AL: Hardener = 75:25 (wt/wt))

The application of the coating is conducted under normal temperature and surrounding conditions.

- + Shake well before using the coating solutions
- + The liquid solution can be applied by using dip process and spray
- + Coated panel needs to be cured for 20-30 minutes at 120°C
- + Can be cured at Room Temperature (RT) with special ULTRACOR Hardener

#### Drying

---

Cure for 20-30 minutes at 120°C / 2K system for RT cure

### Product specs

---

**Storage:** Store in cool & dry place.

Keep container tightly closed in a secure, upright position. Store in accordance with local regulations.

**Packing:** 2 & 20 ltr bucket

**Shelf life (when stored as recommended):** Min 6 months