

**NANO KOAT**

Water based anti-corrosion compound

**Anti-Corrosion Coating for MS & CI Casting on Raw Surface**



BEFORE NANO KOAT ∞



AFTER NANO KOAT ∞



INCREASES UP TO 99%  
BOND STRENGTH

**ACCT** ACTIVE CORROSION CONTROL TECHNOLOGY



**READY TO USE**

**PRODUCT DESCRIPTION**

- **NANO KOAT ∞ ACCT** is ready to use water-based formula with three important properties for corrosion control.
- Removes already present rust (corrosion) on the steel surface using ACCT technology.
- Protects steel from further corrosion by forming a transparent coating in the steel surface.
- Increases bonding with primer/paint for better adhesion with steel.

**USE**

- **NANO KOAT ∞ ACCT** is compatible with Mild Steel (Hot Rolled\_HR & Cold Rolled\_CR) and Cast Iron product only.

**CHEMICAL NATURE**

- **NANO KOAT ∞ ACCT** is inorganic in nature.

**TEST**

- **NANO KOAT ∞ ACCT** Passes

**Salt Spray Test:** As per ASTM 117 Passes up to 1500Hrs.

SAMPLE	STEEL TYPE	NANO KOAT ∞ ACCT KOAT'S	PRIMER COAT'S	TOP COAT'S	RESULT
01	MS STEEL_HR	01	01	01	PASS
	MS STEEL_HR	-	01	01	96HR'S
02	MS STEEL_HR	02	-	01	PASS
	MS STEEL_HR	-	01	01	120 HR'S
03	MS STEEL_HR	02	-	02	PASS
	MS STEEL_HR	-	02	01	120HR'S

**Cross Cut Test:** As per ASTM D-3359 (PAINT BONDING)

SAMPLE	STEEL TYPE	NANO KOAT ∞ ACCT KOAT'S	PRIMER COAT'S	TOP COAT'S	RESULT
01	MS STEEL_HR	01	01	01	4B TYPE
	MS STEEL_HR	-	01	01	1B TYPE
02	MS STEEL_HR	02	-	01	5B TYPE
	MS STEEL_HR	-	01	01	2B TYPE

\*Above mentioned test report are representation of product performance and any claim and damages will not be entertained on the above reports.

**ADVANTAGES AND CHARACTERISTICS**

- **NANO KOAT ∞ ACCT** removes already present rust corrosion on the steel surface using ACCT technology.
- The ACCT\_nano crystals creates its own space within the molecular gap of iron (Fe) molecules and stops conversion of Fe<sub>2</sub> and Fe<sub>3</sub> ions into hydroxyl carbonation i.e. Rust.
- Further transparent barrier coating is formed so densely that it doesn't allow gases and water to penetrate inside, thus it leads into stoppage from rusting or corroding.
- It increases adhesion strength between MS steel substrate, primer and paint by fusion bonding system by up-to 2x compared to conventional method.

**ENVIRONMENT**

- **NANO KOAT ∞ ACCT** Environment Friendly Product: Petroleum Solvent Free, Non Hazardous and Non Toxic Rohs Compliant, VOC Free

**TECHNICAL DATA**

• Material State	Liquid
• Color	Light Blue
• Odor	Typical
• pH	Acidic
• Sp. Gravity	1.04
• Viscosity	14Sec (Ford Cup-4)
• Film (DFT)	10-15* Microns (single coat)
• pH	1.5 – 3.5
• Flammability	NA
• Touch Dry Time	30*-40min
• Hard Dry Time	05 – 06Hrs*
• Application Temp Range	10°C to 45°C^
#Time may vary as per atmospheric conditions *DFT may vary as per raw surface preparation.	

## PACKAGING / CONTAINERS

- **NANO**KOAT ∞ ACCT Availability
- 250ml / 500ml / 01 ℓ / 05 ℓ
- Product Shelf Life: 02Yrs (24 months from the date of mfg.)

## COVERAGE

Up to 13 sq.mt/l (i.e. 140sq.ft/l)\*

\*Coverage depends upon method of surface preparation and type of application process adopted.

## DIRECTIONS TO USE

### SURFACE PREPARATION:

- Rust, dirt, oil, mill scale, paint, and other contaminants must be completely removed from the steel surface before applying **NANO**KOAT. Wipe the steel surface with a clean cloth, ensuring it is completely dry and free of moisture before coating with **NANO**KOAT.
- **TOOL:** Manual By wire brushing, chipping, scraping, sanding with emery-paper no. 80 <--> and 120 ^ by cross-method.
- **POWER TOOL:** Angle grinder with wire cup-brush, sand blasting, grit blasting, waterjet etc.

### NANOKOAT ∞ APPLICATION:

- Shake well before use.
- **TOOL:** Brush, cotton-roller or cotton-cloth. Only use **plastic container** for application and storage.  
**NEVER USE METAL CONTAINER**
- Apply 1 to 2^ coats of **NANO**KOAT evenly on a steel surface, allowing a maximum of 15-20 minutes of drying time between each coat. The end result should be a black or steel finish.  
**NANO**KOAT DFT single coat: 10-15microns
- **TOUCH DRY:** Drying time is between 30 minutes to 1 hour based on atmospheric conditions.
- **HARD DRY:** 5-6 hours compulsory. Avoid getting water on the **NANO**KOAT treated surface until it is fully cured.
- Brush, Cotton Roller and other tools should be cleaned with water and soap immediately.

### PRIMER & TOPCOAT APPLICATION:

- **PRIMER:** Any primer can be use (#Optional)
- **TOP COAT:** Enamel, Epoxy, PU etc. final finish paint can be painted over **NANO**KOAT and primer surface.
- ^As per primer and paint manufactures SAP.

## APPLICATION TOOLS



Cotton-Roller



Brush



Cotton-Cloth

## EQUIPMENT CLEANING

- **NANO**KOAT ∞ ACCT is tough to remove once dried. Wash application tools immediately with plain water and soap.

## STORAGE

- Keep in dry place (between 5°c to 55°c)  
Keep the container tightly closed when not in use.  
Keep away from direct sunlight in cool and dry area.
- Store material in same material like as its original packing. (It is neutral with plastic)

## HEALTH & SAFETY

### RESPIRATORY PROTECTION:

- Use where adequate ventilation is available, no special respiratory protection equipment is needed.  
\*During Spray application it is required.

### HAND PROTECTION:

Rubber or plastic gloves ( nitrile gloves)

### SKIN PROTECTION:

No special protective clothing or skin protection is required under normal condition for use.

### EYE PROTECTION:

If there is a real risk of splashing, wear transparent protective goggles. In case of accident flush eyes with clean plain water and consult with doctor.

**IF SWALLOWED:** Do not induce in vomiting. Contact a local doctor or a specialist.

## KEEP OUT OF REACH OF CHILDREN'S

## PERSONAL PROTECTION EQUIPMENT



## TECHNICAL SUPPORT



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