

# SRS4100

## STEEL GUARD

**STRUCTURAL**  
REINFORCEMENT SOLUTIONS

SRS-4100 Concrete Guard is an advanced vapor-phase corrosion inhibitor designed to protect and enhance concrete surfaces. This organic, surface-applied solution forms a durable film on the embedded steel, pacifying both anodic and cathodic sites of the corrosion cell providing comprehensive and long-lasting protection.

Powered By



- ✓ Environmentally Friendly
- ✓ Improves Structural Integrity
- ✓ Reduces Concrete Permeability
- ✓ Prevents Steel Corrosion
- ✓ Reduces Chloride Activity
- ✓ Protects Reinforcing Steel

## KEY BENEFITS

PRESERVE & PROTECT

- **Promotes Resistivity:**  
Inhibits chloride migration and corrosion.
- **Enhanced Protection:**  
Forms a durable passivating film on embedded steel.
- **Increased Strength:**  
Enhances concrete strength and elevates pH levels.
- **Chemical Reactivity Reduction:**  
Reduces overall chemical reactivity of the concrete.



1-888-292-2592  
Structuralrs.com

# Steel Guard

## PRESERVE & PROTECT

SRS-4100 Steel Guard is an organic, surface-applied corrosion inhibitor designed for use on hardened concrete. It creates a durable passivating film on the surface of embedded steel, effectively pacifying both anodic and cathodic sites of the corrosion cell. This advanced formula migrates as vapor to deposit on the embedded steel, ensuring comprehensive protection.

The SRS-4100 Steel Guard is particularly effective when corrosion is present or suspected, on chloride-contaminated concrete surfaces, and on concrete surfaces showing signs of carbonation. Its benefits include promoting resistivity and inhibiting corrosion. This product is simple to use, environmentally friendly, breathable, and extremely durable. It cannot be peeled or scratched off and can be painted, coated, or overlaid as needed, making it a versatile solution for enhancing the longevity and performance of reinforced concrete structures.

## TECHNICAL PERFORMANCE

Corrosion Rate Reduction:  
Test Method: ASTM G109  
Result: Reduced corrosion rates by up to 80% compared to untreated samples.

## APPLICATION PROCEDURE

**Surface preparation:** Prior to applying SRS-4100 Steel Guard the surface must be clean, sound, and reasonably dry.

**Application:** SRS-4100 Steel Guard is applied by roller, brush or spray onto the concrete surface. When spraying, use conventional airless spray system or hand-pressure equipment. A minimum of two applications is usually required. Apply liberally until substrate is saturated. Spread with squeegee, brush or roller until adsorbed. Waiting time between applications, will vary depending on environmental conditions and absorbency of substrate, is typically one hour. When applying prior to installation of a repair mortar, concrete overlay, coating or membrane, care must be taken to remove any SRS-4100 Steel Guard residue before the mortar or concrete is applied. This can be achieved by rinsing with water, pressure washing or grit blasting. After application, allow substrate to dry before applying coating or membrane.

## Physical Properties

Boiling point: 212F  
Specific gravity: 1.094  
Flashpoint: none pH: 12(+/- .5)  
Appearance and odor: clear liquid with mild chemical odor  
Shelf life: 24 months in an unsealed factory container  
Storage: protect from freezing



1-888-292-2592  
Structuralrs.com

Powered By



# Steel Guard

## CAUTION AND FIRST AID

**Inhalation:** If breathing is difficult due to inhalation of vapor or mist, move person to fresh air and administer oxygen. If breathing has stopped give artificial respiration. Keep person warm, quiet, and get medical attention. Eye

**Contact:** Rinse eyes with cool water for 15 minutes. Hold eyelids open during flushing with water. Get medical attention.

**Ingestion:** If swallowed, immediately drink two glasses of water and induce vomiting. Get medical attention immediately. Do not give anything to an unconscious or convulsing person. For additional information on personal protective equipment, first aid, and emergency procedures, refer to the product Material Safety Data Sheet (MSDS) on the job site or contact the company at the address or phone number given below.

**Disposal of container:** Triple rinse inside of container, seal opening and dispose of properly.

**Distribution rate:** should be about 100-120 sf/gal. It can be adjusted depending on project requirements.

**Clean Up:** In case of spills or leaks, wear suitable protective equipment. Contain spill and collect with absorbent material or process and transfer to a suitable container, ventilate area. Avoid contact. Dispose of in accordance with current, applicable local, state and federal regulations.

**Handling:** SRS-4100 Steel Guard is to be applied by professional contractors only. All applicators should wear OSHA and NIOSH recommended protective equipment. Do not use or dilute the product in closed areas without adequate ventilation. Immediately close the container after removal of the solution. Avoid contact with skin, eyes and clothing. Do not smoke, eat or drink during application. Wash thoroughly after handling. Keep out of reach of children. Do not inhale or ingest or modify the solution. Refer to MSDS.

**Clean Up:** In case of spills or leaks, wear suitable protective equipment. Contain spill and collect with absorbent material or process and transfer to a suitable container, ventilate area. Avoid contact. Dispose of in accordance with current, applicable local, state and federal regulations.

**Precautions:** KEEP OUT OF REACH OF CHILDREN. DO NOT SWALLOW. Use with adequate ventilation. Avoid mist and direct contact with eyes, skin and clothing. Wear suitable protective goggles, gloves, and clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel ill, seek medical advice. Wash clothing prior to re-use.



1-888-292-2592  
Structuralrs.com

Powered By

