

## NIPPON CRS

### Corrosion Retardant Solution

#### Description

NIPPON CRS primer has the ability to create a strong adhesive bond with metal and provide a surface coating that encapsulates corrosion and protects old, deteriorating, ferrous substrates. NIPPON CRS may be applied directly to surfaces with tightly adhered intact rust (with proper preparation). NIPPON CRS will penetrate tightly adhered intact rust to bond with the metal substrate below to stop the corrosion process.

When properly applied, NIPPON CRS provides both the applicator and asset owner with a cost effective infrastructure maintenance program. NIPPON CRS is environmentally friendly due to it being water-based, extremely low VOC level, and ease of application and use.

#### Basic Usage

NIPPON CRS is primarily used as a primer coating to protect ferrous materials from further deterioration and loss of mass, through exposure to many naturally occurring elements.

- Concrete encased metal
- Metal Stairs and Ramps
- Corrosion Under Insulation (CUI)
- Corrugated and Metal Roofs
- Ship Decks
- Columns - Beams - Bridges
- Tanks
- Mines, Infrastructure, Pipe exteriors

NIPPON CRS, in some cases may be used in some cases as a stand-alone solution, although more often as a part of a more comprehensive solution utilizing other Nippon Paint' products. In addition, NIPPON CRS may be used as a functional primer for other coating systems.

#### Benefits

- Simplified surface preparation
- Can be applied via brush, spray, or roll
- Penetrates rust and bonds to metal below
- Extends time between maintenance cycles
- 1K Water-borne product
- Flexible re-coat window (weeks vs hours)
- Ease of clean-up (water and solvents)
- Remarkable ease of application
- Minimal odor
- Water resistant

#### Information / Composition of Components

Proprietary formulation no hazardous ingredients according to the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Number of Components:	One
Pack Size:	3.79 litres (1 gallon)
Mass Density:	1.2-1.3 gr/cc
Volume Solids:	52% ±2%
VOC:	Under 1.0
Viscosity:	200-600cSt
pH:	8-9
Recommended DFT:	25-75 microns (1-3 mils) Dry Film Thickness (DFT)
Shelf Life:	12 months at 4-40° Celsius (in original sealed container)
Physical State at 20°C	Liquid

Appearance: Grey Colour  
Odor: Slight Acrylic  
Freezing Point [°C]: 0°C  
Boiling Point [°C]: 100°C  
Vapor Pressure: 2.3 kPa at RT  
Flammability (Solid, Gas): Not Flammable

### Drying Time

Substrate temperature	: 25°C	40°C
Surface Dry	: 30 mins	10 mins
Through Dry	: 26 hrs	16 hrs
Cured	: 36 hrs	24 hrs
Dry to recoat (min)	: 2 hrs	1 hr
Dry to recoat (Max)	: 2 yrs	2 yrs
Dry to recoat (Max) by itself	: 2 yrs	2 yrs

### Upper / Lower Limit on Flammability or Explosive Limits

Flammability Limit Upper (%): N/A  
Flammability Limit Lower (%): N/A  
Solubility in Water: Partial  
Auto-ignition Temperature [°C]: N/A  
Decomposition point [°C]: N/A

Refer to our Material Safety Data Sheet (MSDS) regarding regulatory compliance, safety, hazards, spill procedures and disposal of this product. While the descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Because many factors may affect processing or application/ use, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE.