

## **NIPPON ZINC RICH PRIMER HS**

## Product Description:

**NIPPON ZINC RICH PRIMER HS** is a two-pack epoxy shop primer for use on abrasive blasted steel prior to application of final paint system. It is recommended where high level of corrosion resistance is required.

Physical Characteristics of Paint:			
Colour	:	Grey	
Texture	:	Matt	
Specific gravity	:	1.95 - 2.05 (fo	or mixture of base and hardener)
Solid Content	:	50 ± 3% by vo	olume
		(ASTM D269	7 1973)
Abrasion	:	Good resistar	nce to abrasion and mechanical damage.
Adhesion	:	Excellent on o	correctly prepared surfaces.
Temperature	:	Dry service te	emperature range up to 100°C.
Recommended For Use:			
Surface Preparation	:	The surface to be painted should be abrasive blasted to minimum <b>Sa 21/2 ISO 8501-1:1988.</b> It is important that the standard should be maintained until the paint is applied on. If rust bloom begins to form before the steel surface is coated, it will be necessary to reblast the steel. The surface must be dry and free from abrasive residues and other contaminants before the paint is applied.	
Recommended No. Of Coats	:	1 coat	
Recommended Film Thickness Per Coat	:	25 ~ 75 microns for dry film 20 ~ 150 microns for wet film	
Theoretical coverage At		20 m <sup>2</sup> /litre	(for dry film thickness of 25 microns)
Recommended Film Thickness	•	6.7 m <sup>2</sup> /litre	(for dry film thickness of 75 microns)
		Theoretical Cove (m²/litre)	erage = <u>Volume Solids (%) X 10</u> Dry Film Thickness (μ)
Practical Coverage		16 m <sup>2</sup> /litre	(for dry film thickness of 25 microns)
(20% Loss Factor)	:	5.4 m <sup>2</sup> /litre	(for dry film thickness of 75 microns)

coating applied onto a perfectly smooth surface without wastage. For a practical coverage rate, due allowance should be made for atmospheric conditions, surface roughness, geometry of the article being coated, the skill of applicator, method of application etc. when estimating quantities required for a particular job.

NIPPON ZINC RICH PRIMER HS

<ul> <li>brushes and mohair/ short nap rollers should be used with full strokes. Avoid rebrushing. Thin up to 10% by volume of SA-65 Thinner for proper flow-out. Additional coats may be required to achieve minimum specified film thickness.</li> <li>2) Spray</li> <li>When airless spray is being used, excessive high tip spraying pressure should be avoided. The minimum pressure at the pump conducive with good atomisation should be used.</li> <li>Guiding Data For Airless</li> <li>Delivery Pressure : 140-170 kg/cm<sup>2</sup></li> <li>Tip Size : 0.015"-0.017"</li> <li>Spray Angle : 60 - 70°</li> <li>If necessary, add up to 5% thinner by volume for application by brush, roller and airless spray; about 10%-15% by volume for application by compressed air spray.</li> <li>3.88 parts by volume of Nippon Zinc Rich Primer HS (Base) to 1.12 part by volume of Nippon Zinc Rich Primer HS (Hardener). Stir the content of the Base component, continue stirring and gradually add the total contents of the Hardener component, continue stirring until a homogeneous mix is obtained.</li> </ul>	Application Methods	: Brush, roller, compressed air spray and airless spray. Preferably
<ul> <li>brushes and mohair/ short nap rollers should be used with full strokes. Avoid rebrushing. Thin up to 10% by volume of SA-65 Thinner for proper flow-out. Additional coats may be required to achieve minimum specified film thickness.</li> <li>2) Spray</li> <li>When airless spray is being used, excessive high tip spraying pressure should be avoided. The minimum pressure at the pump conducive with good atomisation should be used.</li> <li>Guiding Data For Airless</li> <li>Delivery Pressure : 140-170 kg/cm<sup>2</sup></li> <li>Tip Size : 0.015"-0.017"</li> <li>Spray Angle : 60 - 70°</li> <li>If necessary, add up to 5% thinner by volume for application by brush, roller and airless spray; about 10%-15% by volume for application by compressed air spray.</li> <li>3.88 parts by volume of Nippon Zinc Rich Primer HS (Base) to 1.12 part by volume of Nippon Zinc Rich Primer HS (Hardener). Stir the content of the Base component, continue stirring and gradually add the total contents of the Hardener component, continue stirring until a homogeneous mix is obtained.</li> </ul>		Brush, roller, compressed air spray generally lead to lower film thickness, so more applications may be required to obtain the
Guiding Data For Airless       pressure should be avoided. The minimum pressure at the pump conducive with good atomisation should be used.         Guiding Data For Airless       :       Delivery Pressure : 140-170 kg/cm <sup>2</sup> Spray       :       Delivery Pressure : 0.015"-0.017"         :       Spray Angle : 60 - 70°         :       If necessary, add up to 5% thinner by volume for application by brush, roller and airless spray; about 10%-15% by volume for application by compressed air spray.         :       3.88 parts by volume of Nippon Zinc Rich Primer HS (Base) to 1.12 part by volume of Nippon Zinc Rich Primer HS (Hardener). Stir the content of the Base component, continue stirring and gradually add the total contents of the Hardener component, continue stirring until a homogeneous mix is obtained.	1) Brush/Roller	brushes and mohair/ short nap rollers should be used with full strokes. Avoid rebrushing. Thin up to 10% by volume of <b>SA-65</b> <b>Thinner</b> for proper flow-out. Additional coats may be required to
<ul> <li>Spray</li> <li>Delivery Pressure : 140-170 kg/cm<sup>2</sup></li> <li>Tip Size : 0.015"-0.017"</li> <li>Spray Angle : 60 - 70°</li> <li>If necessary, add up to 5% thinner by volume for application by brush, roller and airless spray; about 10%-15% by volume for application by compressed air spray.</li> <li>3.88 parts by volume of Nippon Zinc Rich Primer HS (Base) to 1.12 part by volume of Nippon Zinc Rich Primer HS (Hardener). Stir the content of the Base component, continue stirring and gradually add the total contents of the Hardener component, continue stirring until a homogeneous mix is obtained.</li> </ul>	2) Spray	pressure should be avoided. The minimum pressure at the pump
<ul> <li>Tip Size : 0.015"-0.017"</li> <li>Spray Angle : 60 - 70°</li> <li>If necessary, add up to 5% thinner by volume for application by brush, roller and airless spray; about 10%-15% by volume for application by compressed air spray.</li> <li>3.88 parts by volume of Nippon Zinc Rich Primer HS (Base) to 1.12 part by volume of Nippon Zinc Rich Primer HS (Hardener). Stir the content of the Base component, continue stirring and gradually add the total contents of the Hardener component, continue stirring until a homogeneous mix is obtained.</li> </ul>	Guiding Data For Airless	2
<ul> <li>Spray Angle : 60 - 70°</li> <li>If necessary, add up to 5% thinner by volume for application by brush, roller and airless spray; about 10%-15% by volume for application by compressed air spray.</li> <li>3.88 parts by volume of Nippon Zinc Rich Primer HS (Base) to 1.12 part by volume of Nippon Zinc Rich Primer HS (Hardener). Stir the content of the Base component, continue stirring and gradually add the total contents of the Hardener component, continue stirring until a homogeneous mix is obtained.</li> </ul>	Spray	
<ul> <li>Thinning brush, roller and airless spray; about 10%-15% by volume for application by compressed air spray.</li> <li>3.88 parts by volume of Nippon Zinc Rich Primer HS (Base) to 1.12 part by volume of Nippon Zinc Rich Primer HS (Hardener). Stir the content of the Base component, continue stirring and gradually add the total contents of the Hardener component, continue stirring until a homogeneous mix is obtained.</li> </ul>		
Mixing Ratio       1.12 part by volume of Nippon Zinc Rich Primer HS (Hardener).         Stir the content of the Base component, continue stirring and gradually add the total contents of the Hardener component, continue stirring until a homogeneous mix is obtained.	Thinning	brush, roller and airless spray; about 10%-15% by volume for
Pot Life at 25°C to 30°C : 4 - 6 hours after mixing	Mixing Ratio	1.12 part by volume of <b>Nippon Zinc Rich Primer HS (Hardener)</b> . Stir the content of the Base component, continue stirring and gradually add the total contents of the Hardener component,
	Pot Life at 25°C to 30°C	4 - 6 hours after mixing

 Thinner
 : SA-65 Thinner

 Cleaning solvent
 : SA-65 Thinner

 Note: All equipment should be cleaned IMMEDIATELY with thinner after use. For thinning, substitute thinners other than those approved or supplied by Nippon Paint may adversely affect the product performance and void product warranty whether expressed or implied.

Drying Time at 25°C to 30°C	<ul> <li>Dry to touch - Approximately 10 minutes</li> <li>Dry to handle - Minimum 4 hours</li> <li>Dry to overcoat - Minimum 8 hours</li> </ul>
Curing Time at 25°C to 30°C	: 2 - 3 days

**Note**: Drying time will become remarkably delayed under low temperature. Overcoating the previous coat of Nippon Zinc Rich Primer HS should be done within 6  $\sim$  7 days but preferably as soon as possible after it has been allowed 16 hours drying or else, it is desirable to roughen it by dry sanding with sandpaper before it is overcoated. This is to ensure proper intercoat adhesion. Exposure of the paint film to water, chemical and abrasion should be avoided as far as possible before full cure of the coating. When chalking occurs, chalks should be removed by water washing. Allow the surface to dry thoroughly prior to overcoating.

NIPPON ZINC RICH PRIMER HS

Standard Packing	:	5 litres 20 litres	(3.88 litres Base and 1.12 litre Hardener) (15.52 litres Base and 4.48 litres Hardener)
Shelf Life	:	2 years	

## Environmental Conditions During Application:

- 1. Do not apply when the relative humidity exceeds 85% or when the surface to be coated is less than 3°C above the dew point.
- 2. The surface temperature for application is 7°C. If not, drying and overcoating times will be considerably extended.
- 3. During application of the paint, naked flame, welding operations and smoking should not be allowed and adequate ventilation should be provided.

Safety	, Health and E	Invironr	nental Information:
1.	In the wet st	ate, this	product is highly inflammable. In case of fire, blanket flames with foam,
	carbon dioxid	le or dry	chemicals.
2.	Keep away fr	om sour	ces of ignition. No smoking.
3.	Keep contain	er tightly	/ closed and keep out of reach from children.
4.		air supp	ur/spray. Applying paint to large surface areas under closed environment lied breathing equipment. For small areas or short periods, a suitable d be worn.
	Inhalation	:	Remove to fresh air, loosen collar and keep patient rested.
	Ingestion	:	In case of accidental ingestion. DO NOT INDUCE VOMITING. Seek immediate medical attention.
5.			kin and eyes. Wear suitable protective coating such as overalls, goggles, es. Use a barrier cream.
	Eyes	:	In the event of accidental splashes, flush eyes with water immediately and obtain medical advice.
	Skin	:	Wash skin thoroughly with soap and water or approved industrial cleaner. DO NOT USE solvent or thinners.
6.	Care must be	e taken v	when transporting paint. Keep container in a secure upright position.
7.	Do not empty	y into dr	ains or watercourses. Dispose of any paint waste in accordance with the nental Quality Regulations.
Note:	A Chemical S	Safety Da	ata Sheet (CSDS) is available upon request.

## NOTE:

The above information is given to the best of our knowledge based on laboratory tests and practical experience. However, since we cannot anticipate or control the many conditions under which our products may be used, we can only guarantee the accuracy of our information or the suitability of our products in any given condition.

We reserve the right to alter the given data without notice.