

# DNH-400P

## Heat-resistant 400°C primer (silicone)



This paint contains zinc dust in addition to silicone resin and is a heat-resistance primer that is designed to withstand metal surface temperatures below 400°C. Additionally, it is not only good in heat resistance but also excellent in anti-corrosive properties, bending resistance, quenching, and adhesion.

Usage

Boiler, engine, stovepipe, radiator (heavy duty coating)

### Specification

Paint type	Silicone / Primer (Two-Component)			
Drying time	Category	5°C	20°C	30°C
	Set-to-touch	1 hour	30 minutes	20 minutes
	Dry-hard	6 hours	4 hours	3 hours
	Over-coat (Min.)	20 hours	15 hours	10 hours
Thinner	DR-630	Dilution ratio	▷ Brush, roller coating: less than 5%	
Specific gravity	Approx.1.82		▷ Airless, spray coating: less than 10%	
Theoretical Coverage	14 m <sup>2</sup> /ℓ (1 time - 25μm)	Solid volume ratio	Approx.35±1%	
Color	Metal zinc gray	Thickness of dried film	25μm	
Mixing ratio	Binder(A)/Powder(B)=3/2 (Weight ratio)	Flash point	Approx. 27°C	
Gloss	Matte	Shelf life	12 months (Dry, cool, and dark place with good ventilation)	

### How to Use

Surface treatment	<ol style="list-style-type: none"><li>1. Completely remove oil, moisture, sand, dust, and other foreign matter from the surface to be coated. The degree of surface treatment to obtain an excellent steel protection effect should be at least SSPC-SP 10 or Sa2.5 (near white metal blast cleaning). The surface roughness should not exceed 25 μm.</li><li>2. Sufficiently dry the surface to be coated before coating.</li><li>3. After primer coating, clean up the welded areas (blackened and rusted areas) with a disc sander. Then, touch up with this paint and continue coating.</li></ol>
Coating Method	<ol style="list-style-type: none"><li>1. Coating can be done by either brush, roller, air spray coating.</li><li>2. Airless spray coating:<ul style="list-style-type: none"><li>- Tip diameter : 0.013"~0.017"</li><li>- Injection pressure : More than 2500 P.S.I (176kg/cm<sup>2</sup>)</li><li>- Store the coating equipment after cleaning with an exclusive thinner immediately after use.</li></ul></li></ol>
Preceding & Follow-up Coating	<ol style="list-style-type: none"><li>1. Follow-up coating : DNH-400F HEAT-RESISTANT 400°C top coat (Silicone)</li></ol>
Remarks	<ol style="list-style-type: none"><li>1. Sufficient performance after last coating is achieved after drying for 7 days at 20°C.</li><li>2. If the dry film thickness is too thick, the coating may be peeled. So, please be careful of coating management.</li><li>3. Due to the nature of the paint, it cannot be completely dried at room temperature, and a fully cured coating can be formed only under a temperature of 200°C for at least one hour.</li></ol>