

# PRODUCT DATA

# Nippon Steel

TECHNICAL BULLETIN

## Nippon Steel Epoxy Model: NS 141

### PHYSICAL DATA

Appearance	:	NS 141A Resin (Clear Liquid) NS 141B Hardener (Clear Light Yellowish Liquid)
Viscosity at 30°C	:	NS 141A Resin- 7000 +/- 500 cps NS 141B Hardener - 10 000 +/- 20 000 cps
Main ingredient	:	Epoxy Resin
Mixing ratio	:	1: 1 (by volume)
Pot Life	:	3 ~ 5 minutes at room temperature
Curing Time	:	4 ~ 6 minutes at room temperature
100 % Curing Time	:	24 hours at room temperature
Shear Strength	:	> 12.2 N/mmsq. on metal bonding
Withstand Temperature	:	Minimum 150°C

### CHARACTERISTICS

- NS 141 Epoxy exhibits a remarkable combination of properties, high mechanical strength, excellent resistance to most chemical environments and reliable heat resistance. It fills gaps and makes strong water resistant and tolerant to most fuels and solvents
- NS 141 Epoxy is a two part adhesive of low viscosity which have a good dimensional stability and strong adhesion to a variety of substrates.
- This adhesive also combine reasonable ease of handling with high chemical resistance and mechanical performance after use.
- Most suitable for automotive filter, casting impregnating and potting system industries, electrical or electronic industries.
- Bonding of metals and metal alloys, concrete and stone, rubber and concrete, ceramic materials, glassware, auto trimmings, knobs etc.

### APPLICATIONS

- In order to secure perfect bonding, it is recommended to pre-treat the surface by removing moisture, dust, grease, rust, paint, oxide and all other foreign materials from the bonding surface before the application of NS 141 Epoxy.
- To obtain the best bonding result it is recommended to use suitable primer on bonding surfaces before applying the adhesive.
- Mixed NS 141A resin and NS 141B hardener thoroughly in a ratio of 1: 1 by Volume. After mixing, use the entire mixed adhesive within 2 hour.
- Apply a thin layer of NS 141 epoxy mixture on both sides of the bonding surfaces.
- Assemble bonding surface before mixture become gel.
- After assemble apply suitable pressure on the bonding surface to ensure the mixture would spread evenly and thoroughly between the bonding surfaces.
- Allow cure time for few minutes. The mixture will be fully cured after 24 hours.
- Application should be carried out in a well ventilated area.

### CAUTION

- Flush immediately with water for any spillage on skin.
- If spill on eye, flush immediately with water and seek oculist treatment immediately.
- Highly inflammable product.

### STORAGE

- Provided the resin and hardener are stored dry and cool in air tight containers, the storage stability will be at least 12 months (before mixing) from date of delivery ex-works.