

**MP100
METAL PRIMER**
Technical Data Sheet



DESCRIPTION

IPS WELD-ON® MP100 metal primer is a surface treatment that is designed to clean, chemically convert and prepare stainless steel and aluminum surfaces for permanent bonding with WELD-ON methacrylate structural adhesives. It significantly improves the long-term durability of adhesive bonds that are subjected to humid or corrosive environments such as salt water or salt spray. Without MP100, certain WELD-ON Structural Series adhesives can lose bond strength over time when exposed to such conditions.

MP100 is recommended with all but the SS300 and SS1500 Series products which are primerless metal bonders. MP100 primer is recommended for metal¹ bonding with SS100, SS200, SS500, SS600, SS1100 and SS1300 series products. MP100 is also recommended for use with SS1740, SS230 HV adhesives.

APPLICATION

MP100 is applied by simply brushing or wiping on the metal surface just prior to bonding.

PERFORMANCE HIGHLIGHTS

- Simple brush or wipe application, rapid dry
- Mild solvent action
- Aggressive etching and chemical conversion

- Red color

BENEFITS

- Minimal added time and labor input
- Cleans metal surface prior to conversion
- Reduces surface corrosion and chemically links adhesive to metal surface
- Simplifies application, facilitates visual inspection

TYPICAL PRODUCT CHARACTERISTICS

Physical form:	Water-thin liquid solution
Color:	Red
Density, grams/ml:	0.78
Unit weight, lb/gallon:	6.50
Dry time:	Five minutes or less

¹ Contact manufacturer for test data on specific metal substrates.

MP100 Metal Primer

SAFETY AND HANDLING

Read Material Safety Data Sheet before handling or using this product. MP100 Metal Primer is flammable. Always use in a well-ventilated area. Floor-level extraction and large quantities of moving air greatly facilitate ventilation. MP100 should be stored in a cool place away from sources of heat and open flames or sparks. Keep container closed when not in use. Prevent contact with skin and eyes. In case of skin contact, wash with soap and water. In case of eye contact, flush with water for 15 minutes and seek immediate medical attention. Harmful if swallowed. Keep out of reach of children.

APPLICATION

Remove excess surface contaminants such as dust, grime, grease or oil by washing or wiping with a clean cloth. Surface should be dry before applying primer. Apply a thin coat of primer by brushing, wiping or dipping. Avoid forming puddles or heavy layers of primer. Remove excess primer by wiping while still wet, or remove with a clean rag dampened with alcohol. Re-apply if necessary to provide a thin, uniform layer.

STORAGE AND SHELF LIFE

The shelf life of MP100 Metal Primer in unopened containers is approximately six months from the date the product is shipped from IPS facilities. Shelf life is based on steady state storage between 55°F and 80°F (13°C and 27°C). Exposure, intermittent or prolonged, above 80°F (27°C) will result in a reduction of the stated shelf life. Shelf life can be extended by air-conditioned or refrigerated storage between 50°F and 65°F (10°C and 18°C). KEEP FROM FREEZING.

IMPORTANT NOTES

1. **SUBSTRATE AND APPLICATION COMPATIBILITY.** The user must determine the suitability of a selected adhesive for a given substrate and application. IPS strongly recommends laboratory, shop and end-use testing that simulates the actual manufacturing and end-use environment.
2. **SURFACE PREPARATION.** The need for surface preparation must be determined by comparative testing of prepared and unprepared substrates to assure that unprepared bonding is equivalent to or acceptable for the application relative to prepared bonding. Initial bonding tests must be followed up with simulated or actual durability tests to assure that surface conditions do not lead to degradation of the bond over time under service conditions. Subsequent changes in substrates or bonding conditions will require re-testing.
3. **TECHNICAL ASSISTANCE.** Contact your IPS representative for questions or assistance with the selection of adhesives and methods for evaluating adhesives for your intended application.

This product is intended for use by skilled individuals at their own risk. Recommendations contained herein are based on information we believe to be reliable. The properties presented above are typical values obtained under controlled conditions at the IPS laboratory. They are intended to be used only as a guide for selection for end-use evaluation. The ultimate suitability for any intended application must be verified by the end user under anticipated test conditions. Since specific use, materials and product handling are not controlled by IPS, our warranty is limited to the replacement of defective IPS products.