



**W-ESTER HIDRO CVD 71**

**PRODUCT DESCRIPTION**

Waterborne primer/finish based on epoxy/acrylic resins.

**RECOMMENDED USE**

Excellent product for painting machinery, parts, and industrial equipment.

**CERTIFICATIONS AND APPROVALS**

Certified in category C5H of ISO 12944:2018 when applied at 9.45 mil with polyurethane finish at 2.36 mil.

When supplied to comply with the ROHS Directive (Restriction of Certain Hazardous Substances), this product includes the letter R in its nomenclature description.

**PACKAGING**

<b>Single Component</b>	0.95 US gal Package containing 0.95 US gal 5.28 US gal Package containing 5.28 US gal 52.83 US gal Package containing 52.83 US gal
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**CHARACTERISTICS**

<b>Color</b>	Gray. Black. Red Oxide. Colors. According to customer standard.
<b>Gloss</b>	Ultra-Matte
<b>Volume Solids</b>	38 ± 5% (ISO 3233)
<b>Shelf Life</b>	6 months
<b>Dry Film Thickness</b>	1.6 mils - 2.0 mils
<b>pH</b>	8,5
<b>Dry Heat Resistance</b>	Maximum temperature 176 °F. The product maintains its chemical properties up to a temperature of 176 °F, but from 176°F, color and gloss variations in the paint may occur.
<b>Theoretical Coverage</b>	343.9 ft <sup>2</sup> /gal without dilution at a dry film thickness of 1.8 mils. Loss factors during application are not considered.

**DRYING**

**Drying**

	50 °F	77 °F	95 °F
<b>Touch</b>	120 min	60 min	45 min
<b>Manipulation</b>	120 min	60 min	45 min
<b>Final</b>	168 hours	168 hours	168 hours

**Oven Drying**

	140 °F	176 °F	194 °F
<b>Time</b>	90 min	60 min	40 min
<b>Flash off</b>	15 - 20 min	15 - 20 min	15 - 20 min
<b>Full drying</b>	7 days	5 days	3 days

**SURFACE PREPARATION**

**Standard Surface Preparation**

The performance of this product is related to the degree of surface preparation. In case of doubts, for more information, consult WEG's Technical Department.

The surface must be clean, dry, and free of contaminants. Completely remove oils, greases, and



fats according to SSPC-SP1.

Remove accumulated dirt using a dry brush, clean dry cloth, compressed air blow, vacuum, or a combination of these. Remove soluble salts by washing with plenty of fresh water, preferably under low pressure (up to 5,000 psi), according to SSPC-SP12/NACE No. 5 standard.

**Degreasing**

Completely remove oils and greases by applying a degreasing product or according to the solvent cleaning method. Whenever cleaning surfaces with cloths, replace them to avoid saturation. Do not use cotton waste or colored cloths.

**Carbon Steel Surfaces**

Hard surface layers (e.g., layers resulting from flame cutting) must be removed by grinding before starting abrasive blasting.

All welds must be inspected and, if necessary, repaired before completing abrasive blasting. Porosities, cavities, weld splatter, etc., must be repaired with proper mechanical treatment or welding repair. In other areas, round edges and sharp corners (r e 0.0787 in, ISO 8501-3).

**Phosphated Surfaces**

Carry out the coating conversion process by phosphating, using either zinc or tricationic phosphate, with a mass between 0.041 oz/ft<sup>2</sup> and 0.082 oz/ft<sup>2</sup>. Follow the sequential steps: degreasing; washing; pickling; washing; conditioner; phosphating; washing; passivation; deionized water rinse; drying.

NOTE: Surface preparation must be performed according to all sequential steps relevant to the phosphating process, following the recommendations of the pretreatment manufacturer.

**Over Primer**

Respect the product recoat interval. If exceeded, perform light manual/mechanical sanding to break gloss and clean dust/residues for better adhesion between coats.

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**APPLICATION PREPARATION**

<b>Mixing</b>	Homogenize the content of the container using mechanical or pneumatic stirring. Ensure no sediment remains at the bottom of the container.
<b>Thinner</b>	WATER
<b>Dilution</b>	Depending on the application method, dilute to a maximum of 15%.
<b>Notes</b>	Water-based paints are naturally thixotropic, requiring caution during the dilution process. The amount of Diluent may vary depending on the type of equipment used and environmental conditions during application. Only add Diluent after complete mixing of the other components. Do not dilute with solvents not allowed by local legislation, and do not exceed the indicated dilution percentage. Excessive dilution may affect film formation, appearance, and make it difficult to achieve the specified thickness.
<b>Pot Life</b>	Not relevant.

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**APPLICATION METHODS**

<b>Conventional Spray Gun</b>	Spray gun: JGA 502 Devilbiss or equivalent Fluid nozzle: FX Air cap: 704 Atomization pressure: 50 - 70 psi Tank pressure: 10 - 20 psi.
<b>Roller</b>	For application with brush and/or roller, it may be necessary to apply two or more coats to achieve a uniform layer and the recommended film thickness.
<b>Brush</b>	Recommended only for small area touch-ups or "stripe coat" (screws, nuts, weld beads, sharp corners, and touch-ups).
<b>Immersion</b>	Tanks properly prepared for paint application by immersion with continuous agitation. We recommend a tank with recirculation and cascade for homogenization and bubble removal. The product must be maintained at a pH of 8.0 - 9.0. If



variations occur, correct the product pH using WEG pH adjustment solution. We recommend internal tank cleaning every 3 months.

**Cleaning of the equipments:**

WATER

**Notes**

The data presented serves as a guide and similar equipment may be used.  
 Changes in pressures and nozzle sizes may be necessary to improve spraying characteristics. Purge the compressed air line to avoid paint contamination.  
 Before application, ensure that the equipment and respective components are clean and in optimal condition.  
 After mixing two-component products, if there are application stops and the pot life has been exceeded (paint shows variation in flow), it can no longer be re-thinned for later application.  
 In spray application, overlap each gun pass by 50%, finishing with a cross pass. This technique avoids uncovered or unprotected areas and ensures proper aesthetic finish.  
 Reinforce all sharp corners, gaps, and weld beads with a brush to avoid premature failures in these areas.  
 Clean all equipment immediately after use.  
 Do not leave material in hoses, guns, or equipment used for spraying. Thoroughly wash all used equipment.  
 It is considered good practice to periodically wash the spraying equipment during the day. The cleaning frequency depends on the amount sprayed, temperature, and elapsed time, including all delays.

**APPLICATION PERFORMANCE**

Water-based paints are known for their low toxicity but are vulnerable to environmental contamination, especially by solvents other than water. For best performance, pH should be maintained between 8.0 and 9.0. Once the package is opened, it is recommended to use the product in its entirety.

For optimal application properties, the paint temperature must be between 69.8°F - 80.6°F before mixing and application.

Before application, observe weather conditions: there must be no threat of rain or drizzle. Surface temperature must be at least 37,4°F above the dew point, and relative humidity should not exceed 85%. Adverse conditions may cause color variations and other characteristics. Consult WEG Technical Department.

We recommend painting only if the measured surface temperature is at least 5.4°F above the dew point.

Substrate temperature, climatic and environmental conditions during application and curing, as well as applied film thickness, may affect drying time.

Paintings performed with varying application methods on the same project may result in differences in gloss and final appearance.

Small variations in color, appearance, and gloss (more noticeable in dark colors), as well as delayed curing and performance compromise, may occur during high humidity, rainy days, cold locations, or when parts dry outdoors.

Under adverse weather conditions in indoor and/or outdoor environments with high relative humidity, rain or drizzle, low or very low temperatures, and excessively high temperatures, variations in color and other product characteristics may occur. Please consult WEG's Technical Department for more information.

**SAFETY PRECAUTIONS**

Product developed for industrial use intended for handling by qualified professionals. Carefully read all information contained in the SDS of this product, available at: [www.weg.net](http://www.weg.net).

Store in a covered and well-ventilated place. Keep the container tightly closed and away from sources of heat or ignition.

Use only in well-ventilated areas, avoiding the accumulation of flammable vapors. Keep the product away from heat and sources of ignition.

Do not inhale mists/vapors/aerosols generated during handling and/or application. Use protective gloves/protective clothing/eye protection/face protection.

Empty containers and materials with paint residues must be disposed of according to current legislation. Take care of the environment.



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**NOTE**

The information contained in this technical bulletin is based on the experience and knowledge acquired in the field by WEG's technical team.

In the event of using the product without prior consultation with WEG regarding its suitability for the purpose for which the customer intends to use it, the customer acknowledges that the use will be at their own exclusive responsibility, and WEG is not liable for the behavior, safety, suitability, or durability of the product.

Some information mentioned in this bulletin is only an estimate and may vary due to factors beyond the manufacturer's control. Therefore, WEG does not guarantee and assumes no responsibility for performance, efficiency, or any material or personal damages resulting from the incorrect use of the products in question or from the information contained in this Technical Bulletin.

The information contained in this technical bulletin is subject to periodic modifications, without prior notice, due to our policy of continuous improvement and evolution of our products and services, providing quality solutions to meet the needs of our customers.

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