

W-CRIL HIDRO CVD 73

PRODUCT DESCRIPTION

Waterborne acrylic resin-based paint with fast drying and anticorrosive protection.

RECOMMENDED USE

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

CERTIFICATIONS AND APPROVALS

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

PACKAGING

Single Component

20L Package containing 20L
200L Package containing 200L

CHARACTERISTICS

Color	RAL, Munsell, or according to the customer's standard.
Gloss	Semi-gloss (60 - 80 UB) W-CRIL HIDRO CVD 732 Semi-matte (30 - 60 UB) W-CRIL HIDRO CVD 733 Matte (15 - 30 UB) W-CRIL HIDRO CVD 734 Ultra-matte (0 - 15 UB) W-CRIL HIDRO CVD 735
Volume Solids	38 ± 2% (ISO 3233)
Shelf Life	12 months
Dry Film Thickness	40 µm - 50 µm
pH	8,5
Dry Heat Resistance	Maximum temperature 80 °C. The product maintains its chemical properties up to a temperature of 80 °C, but from 80°C, color and gloss variations in the paint may occur.
Theoretical Coverage	8,44 m ² /l without dilution at a dry film thickness of 45 µm. Loss factors during application are not considered.

DRYING

Drying

25 °C

Touch	45 min
Manipulation	90 min
Final	168 hours

Recoat Drying

25 °C

Minimum	5 hours
Maximum	24 hours

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.

Recommended Surface Profile

It is recommended a roughness profile between 40 and 60 micrometers.



Abrasive Blasting

Perform abrasive blasting to near-white metal, Sa 2½ grade, according to ISO 8501-1 visual standard (A Sa 2½, B Sa 2½, C Sa 2½, D Sa 2½), or according to SSPC-SP10/NACE No. 2, visual standard SSPC-VIS 1 (A SP10, B SP10, C SP10, D SP10, G1 SP10, G2 SP10, G3 SP10).

Evaluate the surface after blasting, observing revealed defects and adopt practices to minimize them, such as grinding or filling.

For areas near marine environments, wash with fresh water at low pressure (minimum 3,000 psi) before abrasive blasting. In some cases, repeat washing after blasting to remove soluble contaminants and perform a new abrasive blasting.

If oxidation occurs between the end of abrasive blasting and coating application, the surface must be blasted again until the specified visual standard is achieved.

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 2 mm, ISO 8501-3).

Phosphated Surfaces

Carry out the coating conversion process by phosphating, using either zinc or tricationic phosphate, with a mass between 2.0 g/m² and 4.0 g/m². 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.

APPLICATION PREPARATION

Mixing	Homogenize the contents of each component by mechanical or pneumatic agitation (A and B). Add component B to component A according to the indicated mixing ratio, under agitation, until fully homogenized.
Thinner	WATER
Dilution	Depending on the application method, dilute to a maximum of 5%.
Notes	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.
Pot Life	Not relevant.

APPLICATION METHODS

Conventional Spray Gun	Spray gun: JGA 502 Devilbiss or equivalent Fluid nozzle: FX Air cap: 704 Atomization pressure: 60 - 65 psi Tank pressure: 10 - 20 psi.
Roller	Use a short-haired, seamless wool or synthetic roller for epoxy paints.
Brush	Recommended only for small area touch-ups or "stripe coat" (screws, nuts, weld beads, sharp corners, and touch-ups). 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.

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.

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.

Light colors may require more than one coat to achieve uniform coverage.

For optimal application properties, the paint temperature should be between 21°C and 27°C before mixing and application.

Before application, observe weather conditions: there must be no threat of rain or drizzle. Surface temperature must be at least 3°C above the dew point, and relative humidity should not exceed 85%. Adverse conditions may cause color variations and other characteristics. Consult WEG Technical Department.

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.

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.

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.

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