



W-THANE HBD 50



PRODUCT DESCRIPTION

High-performance two-component aliphatic acrylic polyurethane primer/finish. Good chemical and continuous weathering resistance, excellent adhesion to carbon steel, color and gloss retention, high resistance to atmospheric agents and some solvents, high performance in hardness, impact, and abrasion.

RECOMMENDED USE

Excellent finish for painting agricultural and road implements, machinery, parts, and equipment requiring natural weathering resistance.

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

Component A	0.95 US gal Package containing 0.79 US gal 5.28 US gal Package containing 4.40 US gal
Component B	0.24 US gal Package containing 0.16 US gal 0.95 US gal Package containing 0.88 US gal

CHARACTERISTICS

Color	According to customer standard. RAL and Munsell chart.
Gloss	Gloss (>80 UB) W-THANE HBD 501 Semi-gloss (60 - 80 UB) W-THANE HBD 502 Semi-matte (30 - 60 UB) W-THANE HBD 503 Matte (15 - 30 UB) W-THANE HBD 504 Ultra-matte (0 - 15 UB) W-THANE HBD 505
VOC content	3.2 (lb/gal). Note: The average of VOC on the line can vary depending on the color.
Volume Solids	54 ± 5% (ISO 3233)
Shelf Life	24 months
Dry Film Thickness	3.5 mils - 5.1 mils
Dry Heat Resistance	Maximum temperature 194 °F. The product maintains its chemical properties up to a temperature of 194 °F, but from 140°F, color and gloss variations in the paint may occur.
Theoretical Coverage	200.1 ft ² /gal without dilution at a dry film thickness of 4.3 mils. Loss factors during application are not considered.

DRYING

Drying	77 °F
Touch	1 hour
Manipulation	8 hours
Final	168 hours
Recoat Drying	77 °F
Minimum	12 hours
Maximum	48 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.

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 1.57 and 2.36 mils.

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).

Inspect the freshly blasted surface, observing defects that may appear after treatment. Correct them by grinding, filling with welds and/or epoxy putty.

Maintenance and Repair

NOTE: Respect the recoating interval for subsequent coat application. If exceeded, perform light manual/mechanical sanding to break the previous coat gloss, followed by dust and residue cleaning to ensure better adhesion between paint layers.

Carbon Steel Surfaces

Completely remove surface oils with clean cloths soaked in cleaning Diluent according to SSPC SP1. Replace cloths during cleaning to avoid saturation. Do not use rags or colored cloths.

Accumulated dirt must be removed using a dry brush, clean dry cloth, compressed air, vacuum, or a combination of these. Soluble salts must be removed with abundant fresh water, preferably under low pressure (up to 5,000 psi), according to SSPC-SP 12/NACE No. 5.

APPLICATION PREPARATION

Mixing	Homogenize the content of each component using mechanical or pneumatic stirring (A and B). Ensure no sediment remains at the bottom of the container. Add component B to component A in the indicated mixing ratio under stirring until completely homogenized, respecting the mixing ratio.
Mixing Ratio	By volume: 5 A x 1 B.
Thinner	PU DILUENT 5008
Dilution	Depending on the application method, dilute to a maximum of 15%.
Notes	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	6 h The shelf life of the mixture is reduced as the ambient temperature increases. The pot-life test of the mixture is carried out according to ABNT NBR 15742; however, different volumes of paint prepared at once, combined with varying ambient and paint temperatures, will affect the mixture's shelf life, potentially resulting in outcomes different from those stated in this technical bulletin.
Induction Time	No induction time required. In very hot locations, we recommend consulting WEG's Technical Department.

APPLICATION METHODS

Conventional Spray Gun	Spray gun: JGA 502/3 Devilbiss or equivalent
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	<p>Fluid nozzle: EX Air cap: 704 Atomization pressure: 60 - 65 psi Tank pressure: 10 - 20 psi.</p>
Roller	<p>Not recommended. 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.</p>
Brush	<p>Recommended only for small area touch-ups or "stripe coat" (screws, nuts, weld beads, sharp corners, and touch-ups).</p>
Cleaning of the equipments:	<p>PU DILUENT 5008</p>
Notes	<p>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. 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.</p>

APPLICATION PERFORMANCE

Some colors may require an additional coat to achieve uniform coverage.

For coatings applied in coastal areas exposed to sea spray, it is recommended to wash with fresh water between coats to remove deposited impurities.

Do not apply the product after the pot life has been exceeded.

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

Polyurethane systems (components A and B) are sensitive to relative humidity, which may cause defects in the dry film and reduction in pot life. After use, keep containers closed and protected.

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

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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