

W-THANE VRA 50

PRODUCT DESCRIPTION

High-performance two-component aliphatic acrylic polyurethane glossy finish paint. Excellent durability, easy cleaning, and fungicidal properties.

RECOMMENDED USE

Used as a topcoat above the waterline on metal structures, industrial equipment, and various machinery. Also recommended as an anti-graffiti coating.

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	3.6L Package containing 3L 20L Package containing 16.65L
Component B	0.9L Package containing 0.6L 4L Package containing 3.35L

CHARACTERISTICS

Color	Colorless.
Gloss	Gloss (>80 UB) W-THANE VRA 501 Semi-gloss (60 - 80 UB) W-THANE VRA 502 Semi-matte (30 - 60 UB) W-THANE VRA 503 Matte (15 - 30 UB) W-THANE VRA 504 Ultra-matte (0 - 15 UB) W-THANE VRA 505
VOC content	423.49 g/l
Volume Solids	58 ± 2% (ISO 3233)
Shelf Life	24 months
Dry Film Thickness	50 µm - 60 µm
Dry Heat Resistance	Maximum temperature 90 °C. The product maintains its chemical properties up to a temperature of 90 °C, but from 60°C, color and gloss variations in the paint may occur.
Theoretical Coverage	10,55 m ² /l without dilution at a dry film thickness of 55 µm. Loss factors during application are not considered.

DRYING

Drying			
	10 °C	25 °C	35 °C
Touch	4 hours	2 hours	1 hour
Manipulation	24 hours	6 hours	4 hours
Final	240 hours	168 hours	168 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.

It is advisable to test the product over the previous coating in a small area to check compatibility. Make sure the original material is well bonded. All loose coatings must be removed. Points with



corrosion or application over aged coatings should be treated according to technical guidance.

Over Primer

The product must be applied over a specific primer. The primer must be clean, dry, and free of contaminants. The topcoat must be applied within the primer recoat interval. Consult the primer technical bulletin for correct application.

APPLICATION PREPARATION

Mixing	Homogenize the content of component A using mechanical stirring. Ensure no sediment remains at the bottom of the container. Add component B to component A in the indicated (volume) proportions under stirring until completely homogenized, respecting the mixing ratio.
Mixing Ratio	By volume: 5 A x 1 B.
Thinner	PU DILUENT 5003
Alternative Thinners	PU 5003 Diluent - Recommended for temperatures below 25 °C. PU 5004 Diluent - Recommended for temperatures between 25°C and 35°C. PU 5007 Diluent
Dilution	Depending on the application method, dilute to a maximum of 20%.
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	3 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.

APPLICATION METHODS

Conventional Spray Gun	Spray gun: JGA 502/3 Devilbiss or equivalent Fluid nozzle: EX Air cap: 704 Atomization pressure: 60 - 65 psi Tank pressure: 10 - 20 psi.
Airless Spray Gun	Airless: Use minimum pump 60:1 Fluid pressure: 1200 - 2200 psi Hose: 1/4" internal diameter Nozzle: 0.015- 0.021".
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).
Cleaning of the equipments:	PU DILUENT 5003
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.
 Do not allow catalyzed product to remain in contact with application equipment, as at temperatures above the indicated "pot life", the paint will show variation in flow and will harden, making cleaning difficult.
 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.

APPLICATION PERFORMANCE

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

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

Painting is recommended only if surface temperature is at least 3°C above the dew point.

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

Must not be applied under adverse conditions, such as relative humidity (RH) above 85%, as color and appearance changes may occur.

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

On freshly painted surfaces in direct contact with water during the curing process, localized staining with color change (more visible in darker colors), curing delay, and compromised product performance may occur.

Polyurethane systems (components A and B) are sensitive when exposed to ambient relative humidity, which may cause defects in the dry film and reduce pot life. Therefore, we recommend that the packaging of each component, after use, be properly sealed and stored in dry places protected from weather conditions.

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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