

W-THANE END 53

PRODUCT DESCRIPTION: Conventional smooth 2-pack aliphatic polyurethane direct to metal. Good resistance to natural weathering and very good adhesion.

RECOMMENDED USES: Recommended for coating road and agricultural implements, machines and equipment exposed to weathering.

CERTIFICATIONS AND APPROVAL: This product, when supplied to comply with the RoHs Directive (Restriction of Certain Hazardous Substances) has the letter R in its description.

PACKAGING:	Component	Content	Package	Unit of measurement
	Component A	3,27	3,6	L
	Component B	0,33	0,9	L

CHARACTERISTICS: Color: Ral, Munsell or as per customer standard.

Gloss:	Gloss	>80 UB	END 531
	Semigloss	60 – 80 UB	END 532
	Semi matte	30 – 60 UB	END 533
	Matte	15 – 30 UB	END 534
	Ultra matte	0 – 15 UB	END 535
Volume solid:	38 ± 5% (ISO 3233).		
Shelf-Life:	12 months.		
Thickness per coat (dry):	50 µm –60 µm		
Theoretical coverage:	6,9 m ² /l without dilution in the thickness of 55 µm dry. Without considering loss factors in application.		
Resistance to dry heat:	Maximum temperature 100 °C Organic coatings can undergo alterations of color, gloss and adherence when exposed to temperatures exceeding 100 °C		
Drying:			
	10°C	25°C	35°C
Touch:	1 hour	40 minutes	30 minutes
Handling:	5 hours	4 hours	4 hours
Final:	192 hours	168 hours	168 hours
Overcoating Drying:			
	10°C	25°C	35°C
Min	6 hours	5 hours	4 hours
Max	28 hours	24 hours	24 hours
Obs	If the maximum interval indicated for applying the subsequent coat is exceeded, it is necessary to proceed with superficial sanding. This procedure is necessary to obtain adhesion between the coats.		

SURFACE PREPARATION The performance of this product depends on the degree of surface preparation.

The accumulated dirt must be removed using a dry brush, clean and dry cloth, compressed air blow, vacuum cleaner and/or with the combination of such items, and the soluble salts must be removed through wash with a great quantity of fresh water, preferably with low pressure (up to 5,000 psi) according to SSPC-SP 12/NACE No. 5.

Maintenance and repair

NOTE: Observe the product overcoating interval to apply the next coat. In case the maximum overcoating interval has been exceeded, it is necessary to manually/mechanically sand the surface to break the gloss

of the previous coat and clean the sanding residues so as to provide better adhesion between the coats.

For further information, consult WEG Technical Department.

PREPARATION FOR APPLICATION

Mixture

Homogenize the contents of the components with a spatula. Ensure that no pigments are settled at the bottom of the package. Add component B to component A, observing the mixing ratio. Mix thoroughly with the spatula.

Mixing ratio (Volume)

10 A X 1 B.

Diluent

Pu diluent 5003

Dilution

Depending on the application method, dilute at most 20%

Do not dilute with solvents that are not allowed by local legislation and do not exceed the recommended dilution percentage.

Only add the diluent after complete mixing of components A + B.

Excessive dilution of the coating may affect the formation and aspect of the film and not allow to reach the specified thickness.

Pot life of the mixture (25°C)

4 h

APPLICATION FORMS

The data below is a guide, and similar equipment may be used.

The data below is a guide, and similar equipment may be used. Changes in nozzle sizes and pressures may be necessary to improve spraying characteristics. Before application, check the equipment and its components are clean and in best condition. Purge the compressed air line to prevent contamination of the coating.

After mixing 2-pack products, if there are stops in the application, and pot life is exceeded (the coating shows variation in fluidity) it can no longer be diluted for further application.

Recoat all sharp edges, cracks and weld beads with a brush to prevent premature failures in these areas.

Conventional gun:

Gun: JGA 502 DevilBiss or equivalent

Fluid nozzle: FX

Air cap: 704

Dilution: 20%

Fluid pressure: 1500 - 2500 psi

Hose: ¼" internal diameter

Nozzle: 0,013" - 0,017"

Brush:

Only recommended for touch up small areas or stripe coat (screws, nuts, weld and sharp edges). Use a brush 75 to 100 mm wide for larger surfaces and 25 to 38 mm for touch up.

Cleaning the equipment:

Pu diluent 5003

NOTE:

Do not leave material in the hoses, spray guns and equipment used in the spraying. Thoroughly wash all equipment used.

PERFORMANCE IN THE APPLICATION

For a good performance of the product, we recommend following the directions below:

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Light colors may require more than one coat for an even coverage.

Product not recommended for painting the interior of tanks

In paintings carried out in front of the sea, if exposed to sea air, we recommend to wash with fresh water between coats eliminating settled impurities.

Do not apply the product after the pot life has expired.

We recommend coating only if the surface temperature is at least 3 °C above the dew point temperature.

Variations in color, aspect and gloss (more noticeable in dark colors) may occur, as well as delay in curing and low coating performance, when applied during periods of high air relative humidity, rainy days, low temperatures or drying the coating outdoor.

The temperature of the substrate, the weather and environmental conditions during the application and during the curing of the product, and the thickness of the coat may interfere in the product drying time.

For better application properties, the coating temperature should be between 21 - 27 °C prior to the mixing and application.

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

Polyurethane systems (component A and B) present when exposed to air relative humidity, which can cause flaws in the dry film and reduction of pot life. Therefore, we recommend that the packages of each component be properly closed after use and kept in dry places protected from bad weather.

In coatings with variation in application method in the same job, the final aspect and gloss of the painted surfaces may show differences.

For further information, consult WEG Technical Department.

SAFETY PRECAUTIONS

Product developed for industrial use intended for handling by qualified professionals.

Please read carefully all the information contained in the MSDS of this product, available at: www.weg.net.

Store in a covered, well-ventilated area. 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.

Wear protective gloves / protective clothing / eye protection / face protection.

Avoid release this product and its packaging, as well as materials used during handling and application in the environment.

NOTE:

The information contained in this technical datasheet is based upon the experience and knowledge acquired in the field by the technical team of WEG.

If using the product without previous inquiry to WEG Coating concerning its suitability for the customer's intended purpose, the customer is aware that the use shall be its exclusive responsibility, WEG not being responsible for behavior, safety, suitability or durability of the product.

Some information contained in this datasheet are estimated, and can undergo variances arising from factors outside the manufacturer's control. Thus, WEG does not guarantee and does not assume any responsibility regarding the yield, performance or any other material or personal damage resulting from the incorrect use of the products concerned or the information contained in this Technical datasheet.

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