



W-THANE AC 431

PRODUCT DESCRIPTION

Acrylic/polyester polyurethane enamel catalyzed with aliphatic isocyanate. Glossy paint with excellent color and gloss retention even under intense sunlight. Highly resistant to extreme environmental conditions.

RECOMMENDED USE

Used in refineries, chemical and petrochemical industries, pulp and paper factories, coastal installations, external parts of tanks, oil exploration platforms, steel plants, transformers, cranes, and overhead cranes.

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 0.83 US gal
Component B	0.13 US gal Package containing 0.13 US gal

CHARACTERISTICS

Color	White. Colors upon request.
Gloss	Gloss
VOC content	4.48 lb/gal
Volume Solids	55 ± 2% (ISO 3233)
Flash Point	25 °C
Shelf Life	12 months
Dry Film Thickness	1.2 mils - 1.6 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	640.2 ft²/gal without dilution at a dry film thickness of 1.4 mils. Loss factors during application are not considered.
Specific Gravity	Min: 1.18 Max: 1.28 g/cm³

DRYING

Drying			
	50 °F	77 °F	95 °F
Final	96 hours	84 hours	72 hours
Recoat Drying			
	50 °F	77 °F	95 °F
Minimum	20 hours	24 hours	12 hours
Maximum	48 hours	36 hours	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.

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.

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 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. Avoid prolonged mixing, as frictional heat will significantly reduce the product's shelflife.
Mixing Ratio	By volume: 6.5 A x 1 B.
Thinner	PU DILUENT 5008
Dilution	Depending on the application method, dilute to a maximum of 20%.
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.

APPLICATION METHODS

Conventional Spray Gun	Spray gun: JGA 502/3 Devilbiss or equivalent Fluid nozzle: EX Air cap: 704.
Airless Spray Gun	Airless: Use minimum pump 60:1 Hose: 1/4" inner diameter.
Flooding	For flooding application, adjust the application viscosity between 14 and 18 seconds CF4.
Roller	For this type of application, dilute a maximum of 10%.
Brush	For this type of application, dilute a maximum of 5%.
Cleaning of the equipments:	PU DILUENT 5008
Notes	The data presented serves as a guide and similar equipment may be used. 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.

APPLICATION PERFORMANCE

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

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

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

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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