

W-THANE SQA 50

PRODUCT DESCRIPTION

High-solids, high-yield two-component aliphatic acrylic polyurethane glossy finish. Developed as part of an anticorrosive protection system, high waterproofing, chemical resistance, and natural weathering resistance.

RECOMMENDED USE

Product that provides a high-gloss film where resistance and aesthetics are required. Combined with primer and/or epoxy intermediates, provides a highly durable system. The aliphatic acrylic polyurethane system is widely used in chemical, petrochemical, pulp and paper, sugar and alcohol, and transport industries, among others.

Product applicable with substrate temperature up to 70°C. For this condition, use the specific primer W-TERM HPD 364.

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

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

CHARACTERISTICS

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| Color | According to customer standard. RAL and Munsell chart. |
| Gloss | Gloss |
| VOC content | 535.15 g/l |
| Volume Solids | 65 ± 2% (ISO 3233) |
| Shelf Life | 24 months |
| Dry Film Thickness | 60 µm - 70 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 | 10,00 m ² /l without dilution at a dry film thickness of 65 µm. Loss factors during application are not considered. |

DRYING

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|----------------------|--|--------------|-----------|--------------|--------------|--------------|
| Drying | <table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; text-align: center;">10 °C</td> <td style="width: 33%; text-align: center;">25 °C</td> <td style="width: 33%; text-align: center;">35 °C</td> </tr> </table> | | | 10 °C | 25 °C | 35 °C |
| 10 °C | 25 °C | 35 °C | | | | |
| Touch | 7 hours | 4 hours | 3 hours | | | |
| Stickiness | 12 hours | 8 hours | 5 hours | | | |
| Final | 300 hours | 240 hours | 168 hours | | | |
| Recoat Drying | <table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; text-align: center;">10 °C</td> <td style="width: 33%; text-align: center;">25 °C</td> <td style="width: 33%; text-align: center;">35 °C</td> </tr> </table> | | | 10 °C | 25 °C | 35 °C |
| 10 °C | 25 °C | 35 °C | | | | |
| Minimum | 12 hours | 8 hours | 5 hours | | | |
| Maximum | 48 hours | 48 hours | 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.

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

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| Mixing | Homogenize the content of component A using mechanical or pneumatic stirring. Gradually add component A to component B. Homogenize slowly using manual or pneumatic stirring until a smooth, lump-free mixture is obtained. The indicated mixing proportion for paint preparation must be respected. If necessary, filter through a 60-mesh screen. |
| Mixing Ratio | By volume: 5 A x 1 B. |
| Thinner | PU DILUENT 5007 |
| 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 | 2 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

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| 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: 3/8" inner diameter Nozzle: 0.015" - 0.021". |
| Roller | Use a short-haired, seamless wool or synthetic roller for epoxy paints. 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. |
| 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 5007 |
| 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.

APPLICATION PERFORMANCE

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

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

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

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.

Product not recommended for internal tank painting.

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.

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.

SYSTEM COMPATIBILITY AND MAINTENANCE REPAINTING

The primer repainting interval must be respected for the application of the topcoat. If the maximum interval indicated is exceeded, manual/mechanical sanding with sandpaper to remove gloss is necessary. The primer surface must be dry and free of contaminants.

In situations where the nature of the primer is unknown, it is recommended to test the product's compatibility on a small area; it must be ensured that the original material is well adhered. All non-adhered paint must be removed; areas with corrosion or applications over aged paints must be treated according to technical guidance.

Direct application of the product over zinc-rich primers based on ethyl silicate, alkyd primers, coal tar-based paints, and other single-component primers is not recommended. When topcoat application over any of the above primers is required, we recommend applying a suitable intermediate product.

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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