

## NEW TECH 508

### PRODUCT DESCRIPTION

Primer-finish developed with special resins. Fast drying, with anticorrosive pigmentation and nanotechnology particles.

### RECOMMENDED USE

Excellent primer for protection of cast iron and carbon steel. Used on machinery, equipment, and metal structures exposed to medium aggressiveness environments.

### 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

#### Single Component

20L Package containing 20L

### CHARACTERISTICS

|                             |                                                                                                                                                                             |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Color</b>                | Gray.<br>Black.                                                                                                                                                             |
| <b>Gloss</b>                | Matte                                                                                                                                                                       |
| <b>Volume Solids</b>        | 35 ± 5% (ISO 3233)                                                                                                                                                          |
| <b>Flash Point</b>          | 28 °C                                                                                                                                                                       |
| <b>Shelf Life</b>           | 12 months                                                                                                                                                                   |
| <b>Dry Film Thickness</b>   | 40 µm - 60 µm                                                                                                                                                               |
| <b>Dry Heat Resistance</b>  | Maximum temperature 90 °C.<br>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. |
| <b>Theoretical Coverage</b> | 7,00 m <sup>2</sup> /l without dilution at a dry film thickness of 50 µm.<br>Loss factors during application are not considered.                                            |

### DRYING

#### Drying

|                     | 10 °C    | 25 °C    | 35 °C    |
|---------------------|----------|----------|----------|
| <b>Touch</b>        | 55 min   | 30 min   | 20 min   |
| <b>Manipulation</b> | 5 hours  | 3 hours  | 2 hours  |
| <b>Final</b>        | 96 hours | 72 hours | 72 hours |

#### Recoat Drying

|                | 10 °C    | 25 °C    | 35 °C    |
|----------------|----------|----------|----------|
| <b>Minimum</b> | 12 hours | 10 hours | 6 hours  |
| <b>Maximum</b> | 72 hours | 72 hours | 72 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.

#### Carbon Steel Surfaces

Perform abrasive blasting to near-white metal, Sa 2 1/2 grade.

### APPLICATION PREPARATION

#### Mixing

Homogenize the content of the container using



|  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |                 | mechanical or pneumatic stirring. Ensure no sediment remains at the bottom of the container.                                                                                                                                                                                                                                                                                                                                   |
|  | <b>Thinner</b>  | DILUENT 1001                                                                                                                                                                                                                                                                                                                                                                                                                   |
|  | <b>Dilution</b> | Depending on the application method, dilute to a maximum of 30%.                                                                                                                                                                                                                                                                                                                                                               |
|  | <b>Notes</b>    | 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. |
|  | <b>Pot Life</b> | Not relevant.                                                                                                                                                                                                                                                                                                                                                                                                                  |

## APPLICATION METHODS

|  |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>Conventional Spray Gun</b>      | Spray gun: JGA 502 Devilbiss or equivalent<br>Fluid nozzle: FX<br>Air cap: 704.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|  | <b>Airless Spray Gun</b>           | Fluid pressure: 1500 - 2500 psi<br>Hose: 1/4" inner diameter<br>Nozzle: 0.013" - 0.017".                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|  | <b>Brush</b>                       | Recommended only for small area touch-ups or "stripe coat" (screws, nuts, weld beads, sharp corners, and touch-ups).<br>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.<br>Use a brush 75 to 100 mm wide for larger surfaces and 25 to 38 mm for touch-ups.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|  | <b>Cleaning of the equipments:</b> | DILUENT 1001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|  | <b>Notes</b>                       | The data presented serves as a guide and similar equipment may be used.<br>Changes in pressures and nozzle sizes may be necessary to improve spraying characteristics. Purge the compressed air line to avoid paint contamination.<br>Theoretical coverage is calculated based on solids by volume without thinning and does not include losses due to surface roughness, part geometry, application methods, application conditions, inadequate thickness, or applicator techniques.<br>Before application, ensure that the equipment and respective components are clean and in optimal condition.<br>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.<br>Reinforce all sharp corners, gaps, and weld beads with a brush to avoid premature failures in these areas.<br>Clean all equipment immediately after use.<br>Do not leave material in hoses, guns, or equipment used for spraying. Thoroughly wash all used equipment. |

## 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.

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.

When applying by brush or roller, two or more coats may be necessary to achieve a uniform layer and recommended film thickness.

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.

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.

## 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](http://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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