



SYLPYL 3480 WB

PRODUCT DESCRIPTION		It is a water-based, solvent-free coating that acts as a barrier against fire. It is sublimating, intumescent, fire-resistant, insulating, and flame-retardant, providing high effectiveness. In addition to preventing the spread of fire, it protects structural steel against overheating, maintaining its strength during a fire. It provides a form of passive fire protection for buildings.
RECOMMENDED USE		It can be applied to steel structures and surfaces, such as columns, beams, metal decks, tanks, and supports. It is also compatible with concrete, brick, drywall, and wood walls and partitions. For galvanized surfaces and metal decks (steel), W-POXI GNP 415 must be used as the first coat, followed by the application of SYLPYL 3480 WB until the desired final thickness is achieved.
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. Complies with UL 263, ASTM E-119, URC 7-1, NFPA 251, UBC-S101, and ANSI A2.1, as well as the equivalent standards ISO 834 and BS 476 Part 20.
PACKAGING	Single Component	3.6L Package containing 3.6L 20L Package containing 20L
CHARACTERISTICS	Color	White.
	Gloss	Matte
	Volume Solids	69 ± 2% (ISO 3233)
	Shelf Life	24 months
	Dry Film Thickness	9.8 mils (250 µm) - 118.1 mils (3.000 µm)
	Dry Heat Resistance	Maximum temperature 140 °F (60 °C). The product maintains its chemical properties up to a temperature of 140 °F (60 °C), but from 60°C, color and gloss variations in the paint may occur.
	Theoretical Coverage	112.5 ft²/ga (2,76 m2/l) without dilution at a dry film thickness of 9.8 mils (250 µm). Loss factors during application are not considered.
DRYING	Drying	20 °C
	Touch	30 min
	Manipulation	48 hours
	Final	240 hours
	Recoat Drying	20 °C
	Minimum	8 hours
	Maximum	120 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. Recommended Surface Profile It is recommended a roughness profile between 40 and 60 micrometers. Abrasive Blasting



Perform abrasive blasting to near-white metal, Sa 2½ grade, according to ISO 8501-1 visual standard (A Sa 2½, B Sa 2½, C Sa 2½, D Sa 2½), or according to SSPC-SP10/NACE No. 2, visual standard SSPC-VIS 1 (A SP10, B SP10, C SP10, D SP10, G1 SP10, G2 SP10, G3 SP10).

Inspect the freshly blasted surface, observing defects that may appear after treatment. Correct them by grinding, filling with welds and/or epoxy putty.

For areas near marine environments, wash with fresh water at low pressure (minimum 3,000 psi) before abrasive blasting. In some cases, repeat washing after blasting to remove soluble contaminants and perform a new abrasive blasting.

If oxidation occurs between the end of abrasive blasting and coating application, the surface must be blasted again until the specified visual standard is achieved.

Carbon Steel Surfaces

Hard surface layers (e.g., layers resulting from flame cutting) must be removed by grinding before starting abrasive blasting.

All welds must be inspected and, if necessary, repaired before completing abrasive blasting. Porosities, cavities, weld splatter, etc., must be repaired with proper mechanical treatment or welding repair. In other areas, round edges and sharp corners (r # 2 mm, ISO 8501-3).

Concrete Surfaces

Mold release agents, cement laitance, grease, oil, wax, or any other contaminants that have penetrated or deposited on the surface must be removed, along with all accumulated dust.

Over Primer

NOTE: Respect the product's recoat interval for the application of the subsequent coat. If the maximum indicated recoat interval is exceeded, it is necessary to perform a light manual or mechanical sanding to break the gloss of the previous coat, followed by cleaning off dust and sanding residues to ensure better adhesion between paint coats.

APPLICATION PREPARATION

Mixing	Homogenize the content of the container using mechanical or pneumatic stirring. Ensure no sediment remains at the bottom of the container.
Thinner	WATER
Dilution	Depending on the application method, dilute to a maximum of 5%.
Pot Life	Not relevant.

APPLICATION METHODS

Conventional Spray Gun	Spray gun: JGA 5023-67 Devilbiss or equivalent Fluid nozzle: AV 617 EE Air cap: MB 4039 - 67 (with ring) Atomization pressure: 50 - 70 psi Tank pressure: 10 - 20 psi.
Airless Spray Gun	Airless: Use minimum pump 60:1 Fluid pressure: 2000 - 3000 psi Hose: 1/4" inner diameter Nozzle: 0.031" - 0.035".
Roller	Use a short-haired, seamless wool or synthetic roller for epoxy paints. Not recommended for internal tank painting. 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:	WATER
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.
Before application, ensure that the equipment and respective components are clean and in optimal condition.
Clean all equipment immediately after use.
Do not leave material in hoses, guns, or equipment used for spraying. Thoroughly wash all used equipment.
It is considered good practice to periodically wash the spraying equipment during the day. The cleaning frequency depends on the amount sprayed, temperature, and elapsed time, including all delays.

APPLICATION PERFORMANCE

Application of thicknesses above the recommended may result in coating film defects such as cracking, fissures, or fractures.

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

Application must only be carried out with equipment that provides mechanical agitation during the entire application.

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.

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

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.

Usage restriction: As this is a water-based product, this version should not be applied to components that will be exposed to weather conditions, as contact with rain and moisture may compromise the adhesion and final performance of the coating.

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.

The information contained in this technical bulletin is subject to periodic modifications, without prior notice, due to our policy of continuous improvement and evolution of our products and services, providing quality solutions to meet the needs of our customers.