



W-POXI SAM 31

PRODUCT DESCRIPTION

Green underwater polyamide epoxy putty. Solvent-free. Recommended for permanent submerged carbon steel treated with Sa 2 abrasive blasting, hydroblasting, or SSPC-SP 3 manual mechanical treatment. Also applicable to concrete surfaces. Can be applied underwater without affecting curing. Once cured, forms a hard, abrasion-resistant film.

RECOMMENDED USE

Repair and maintenance of structures immersed in fresh or salt water (sea), oil platforms, piles, offshore structures, as well as concrete pillars and bridges (in areas where there is no material expansion or contraction).

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	3.6L Package containing 5kg
Component B	3.6L Package containing 5kg

CHARACTERISTICS

Color	Green.
Gloss	Ultra-Matte
Volume Solids	SOLVENT-FREE
Shelf Life	24 months
Dry Film Thickness	1.000 µm - 3.000 µm
Dry Heat Resistance	Maximum temperature 120 °C. The product maintains its chemical properties up to a temperature of 120 °C, but from 60°C, color and gloss variations in the paint may occur.
Theoretical Coverage	0,50 m ² /l without dilution at a dry film thickness of 2.000 µm. Loss factors during application are not considered.

DRYING

Drying	10 °C 25 °C 35 °C			
	Manipulation	48 hours	24 hours	20 hours
	Final	300 hours	240 hours	168 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.

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.

Water Jetting



It is recommended to paint on hydroblasted surfaces to CWJ-2 grade according to SSPC-VIS 4. The product can be applied on surfaces with light flash rust, grade CWJ-2L.

Hand and Power Tool Cleaning

Mechanically treat the surface until achieving at least St 2 grade according to ISO 8501-1 visual standard or SSPC-SP 2, using SSPC-VIS 3 visual standard as guidance.

Concrete Surfaces

Before painting, all masonry or concrete must be cured (28 days for cement mortar or concrete) and dry, without cracks, fissures, or voids, and perfectly adhered to the base or other mortar and coating layers.

APPLICATION PREPARATION

Mixing	Homogenize the component content with a spatula. Ensure no pigment remains at the bottom of the container. Add component B to component A respecting the mixing ratio. Mix thoroughly with the spatula.
Mixing Ratio	By volume: 1 A x 1 B.
Thinner	Not applicable.
Pot Life	1 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.
Induction Time	No induction time required. In very hot locations, we recommend consulting WEG's Technical Department.

APPLICATION METHODS

Squeegee, Spatula and Trowel	Apply by spreading. Use appropriate protection, nitrile gloves.
Cleaning of the equipments:	Not applicable.
Notes	The data presented serves as a guide and similar equipment may be used. Before application, ensure that the equipment and respective components are clean and in optimal condition.

APPLICATION PERFORMANCE

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

Substrate temperature, climatic and environmental conditions during application and curing, as well as applied film thickness, may affect drying time.

Epoxy systems may have longer curing times when exposed to low temperatures. For curing at temperatures below 10°C, consult the WEG Technical Department.

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.
