

PRODUCT CHARACTERISTICS

Description

Osmo-Blocker MPO030 WILKOPOX consists of two-component, epoxy-based products specifically developed for the prevention and repair of osmosis-related damage on glass-reinforced polyester [GRP] boats. It provides excellent impermeability, offering superior resistance to both fresh and salt water.

For optimal protection, a minimum of four coats is recommended. These products are not only effective as a preventive barrier but also serve as a reliable solution for repairing existing osmosis damage.

Easy to apply, this primer system ensures long-term protection of GRP surfaces by minimizing water permeability through the hull structure.

Recommended use

It is designed to provide long-term protection against osmosis in glass-reinforced polyester [GRP] boat hulls.

Features

Long-term hull durability, minimized water permeability

Superior fresh & salt water resistance

Dual-function: protection & repair

User-friendly application for professionals and DIY users

PRODUCT DATA

Product Code
MPO030

Specific Gravity
1.44 ±0.1 kg/L

Standard Colour*
Grey

Volume Solids
53 ±2%

[*Other shades available according to the current assortment list.]

Reference dry film thickness
50 µm

Gloss
Matt

Pack Size
0.75 L, 2.5 L

Mixing Ratio
3:1 by volume

Substrates
Glass-reinforced polyester [GRP]

PRODUCT SAFETY

Flash Point
25 °C [77 °F]

VOC Content [Volatile Organic Compound]	Value
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Directive 2010/75/EU	455.1 g/L
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VOC values may vary depending on the selected shade. For accurate information, please refer to Section 8. and 9 of the Safety Data Sheet [SDS].

Handling

Handle with care. Prior to and during application, carefully observe all safety labels on the packaging and paint containers.

Ensure compliance with all applicable local and national safety regulations.

Always refer to the Wilckens Material Safety Data Sheet [MSDS] and the Product Data Sheet [PDS] for comprehensive guidance.

APPLICATION DATA

Application Methods

Tool	Thinning Max. Vol. [Keep thinning at an absolute minimum]
Brush / Roller	10%

Thinner : EPOXY TSE170 THINNER

Cleaner : EPOXY TSE170 THINNER

Film Thickness	Dry	Wet
Reference	50 µm	95 µm
Minimum	50 µm	95 µm
Maximum	100 µm	190 µm

Theoretical Spreading Rate*: 10.6 m² / L

*At the specified reference dry film thickness.

Recommended Number of Coats: 4

Application Conditions

Apply only to clean and dry surfaces, ensuring that the surface temperature is at least 3°C above the dew point and maximum relative humidity 85% to prevent condensation.

Ensure adequate ventilation in confined or enclosed spaces during both application and drying phases.

Mixing Instructions

Stir the contents of each component thoroughly before mixing. Combine the base and curing agent in the specified mixing ratio and mix thoroughly to ensure uniformity.

SURFACE PREPARATION

All surfaces to be coated must be clean, dry, and free from contaminants. Surface preparation should be carried out in accordance with ISO 8504 standards.

Previously Coated Surfaces

For surface preparation, blast-cleaning should be performed using 100–200 grit abrasive paper. For guidance on surface preparation over existing coatings, please contact the Wilckens technical office.

DRYING / OVERCOATING DATA

Drying Time	5 °C [41 °F]	10 °C [50 °F]	23 °C [73 °F]	30 °C [86 °F]	35 °C [95 °F]
Pot Life	12 Hours	10 Hours	8 Hours	6 Hours	4 Hours
Touch Dry	16 Hours	12 Hours	6 Hours	4 Hours	2 Hours
Hard Dry	21 Days	14 Days	7 Days	3 Days	2 Days

Overcoating Interval	5 °C [41 °F]	10 °C [50 °F]	23 °C [73 °F]	30 °C [86 °F]	35 °C [95 °F]
Minimum	2 Days	3 Days	1 Day	12 Hours	10 Hours
Maximum	2 Months	2 Months	1 Month	15 Days	10 Days

The provided data should be regarded as general guidelines only. Actual drying times and recoating intervals may vary—potentially being shorter or longer—depending on several factors, including film thickness, ventilation, humidity, the characteristics of the underlying paint system, and specific requirements for early handling or mechanical strength.

A complete coating system, including all relevant parameters and special conditions, can be detailed in a system sheet. The stated data is based on a dry film thickness of 50 microns, measured under controlled or specifically defined conditions.

Overcoating intervals depend on the subsequent conditions of exposure. If the maximum overcoating interval is exceeded, mechanical roughening of the surface is required to restore intercoat adhesion.

Before overcoating after exposure to contaminated environments, the surface must be thoroughly cleaned with high-pressure fresh water and allowed to dry completely.

STORAGE

Shelf Life

Ambient Temperature: 25°C [77°F]

Shelf Life: 3 years from the date of production, when stored in original, unopened containers under recommended conditions.

After this period, the product must be re-inspected to ensure suitability for use.

Prolonged storage at elevated temperatures may shorten shelf life and adversely affect product quality.

Storage Conditions

The product must be stored in full compliance with all applicable national regulations. Avoid exposure to air and extreme temperatures. To ensure the full shelf life of the product, keep the container tightly sealed between uses and store it at a temperature between 5°C [41°F] and 35°C [95°F].

Protect from direct sunlight at all times.

Disposal

Do not dispose of paint containers or pour residual paint into drains, watercourses, or the environment. Use designated waste disposal facilities.

It is recommended to allow leftover paint to harden prior to disposal.

Disposal of remaining material must be carried out in consultation with local environmental authorities and in accordance with relevant regulations.

HEALTH AND SAFETY

Please observe all precautionary statements and safety symbols displayed on the product container.

Use only in well-ventilated areas. Avoid inhalation of spray mist and prevent contact with skin.

In case of skin contact, immediately remove spillage using a suitable cleanser, followed by washing with soap and water.

In case of eye contact, flush thoroughly with clean water and seek medical attention immediately.

Wear appropriate protective gloves, clothing, and eye/face protection during application.

For comprehensive information regarding health and safety hazards, protective measures, and first aid procedures, please consult the Material Safety Data Sheet [MSDS].

DISCLAIMER

The data, specifications, instructions, and recommendations provided in this data sheet are based on test results and practical experience obtained under controlled or specifically defined conditions.

Their accuracy, completeness, or suitability for any particular application or actual conditions of use must be evaluated solely by the Buyer and/or User.

We reserve the right to modify or update the information provided without prior notice.

For further information, please contact your local representative or visit www.wilckens-yachtpaint.com.