OSMO-CURE MPO070
WILKOPOX
SOLUTION

PRODUCT DATA SHEET

PRODUCT CHARACTERISTICS

Description

Osmo-Cure MPO070 WILKOPOX is an advanced osmosis treatment and protection system, engineered with high-build, two-component epoxy technology specifically developed for glass-reinforced polyester [GRP] marine structures. Its solvent-free formulation eliminates the risk of capillary channel formation within the coating film, significantly reducing the potential for water ingress and subsequent blistering.

Each coat provides a minimum dry film thickness of 150 microns, with four coats recommended to achieve optimal, long-term protection. Once fully cured, Osmo-Cure MPO070 WILKOPOX forms a dense, durable, and water-impermeable barrier that bonds strongly to GRP substrates, delivering robust and lasting performance in aggressive marine environments.

Recommended use

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

Features

Solvent-free – water & blister resistant

Strong adhesion to GRP surfaces

Reliable long-term marine performance

PRODUCT DATA

Product Code
MPO070

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

Gloss
Glossy

Mixing Ratio
2:1 by volume

Specific Gravity
1.16 ±0.1 kg/L

Volume Solids
100%

Reference dry film thickness
150 µm

Pack Size
0.75 L, 2.5 L

Substrates
Glass-reinforced polyester [GRP

PRODUCT SAFETY

Flash Point
Non-flammable [>60 °C]

VOC Content [Volatile Organic Compound]	Value
Directive 2010/75/EU	0 g/L

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
Brush / Roller

Thinner : Not recommended for use

Film Thickness	Dry	Wet
Reference	150 µm	150 µm
Minimum	100 µm	100 µm
Maximum	200 µm	200 µm

Theoretical Spreading Rate*: 6.67 m^2 / L
*At the specified reference dry film thickness.

Recommended Number of Coats: 2 or 4

Application Condition

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

The gelcoat should be removed. The surface is then left to dry after measuring its humidity.

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	3 Hours	2 Hours	1 Hour	30 Min.	20 Min.
Touch Dry	36 Hours	24 Hours	16 Hours	8 Hours	6 Hours
Hard Dry	10 Days	7 Days	5 Days	3 Days	2 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 150 microns, measured under controlled or specifically defined conditions.

Overcoating Interval	5 °C [41 °F]	10 °C [50 °F]	23 °C [73 °F]	30 °C [86 °F]	35 °C [95 °F]
Minimum	52 Hours	48 Hours	24 Hours	12 Hours	10 Hours
Maximum	12 Days	10 Days	5 Days	3 Days	2 Days

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.