



MIRAPAKON™ MK300

COMPANY IDENTIFICATION

MIRAPAKON™ Coatings Inc.

2500 Parc-Technologique Blvd.
Quebec (QC) G1P 4S6 ; CANADA

TEL: (418) 874-0054 FAX: (418) 874-0355

HEURES: Mo-Fr 8:00 à 17:00 (East)

www.mirapakon.com

PRODUCT DESCRIPTION

MIRAPAKON™ MK300 is a merge of anti-fouling and fouling-release coatings for boat hulls and out drive assemblies. **It generate a barrier that prevents the adherence of organisms and microorganisms.**

FEATURES

- Easy clean surface with minimal effort
- Translucent finish
- Excellent adhesion to most gelcoats, metals (including aluminium), epoxies, plastics, fiberglass, painted surfaces and wood.
- Reduces drag co-efficient
- Easy application and clean-up

USES

Excellent performance when used for:

- Applications requiring a non-toxic foul release coating
- Hulls and Rudders
- Out drive assemblies
- Trim tabs
- Aluminum and steel structures.

CAUTION

FLAMMABLE MATERIAL – (Flash point closed cup: 66 °F, Open cup: 84 °F)

Keep away from sparks and open flames. All electrical equipment and installations should be made and grounded in accordance with the National Electric Code. In areas where explosion hazards exist, workmen should be required to use non-ferrous tools, use explosion-proof electric equipment, wear conductive and non-sparking shoes and follow NFPA 33 recommendations. The treated surface will become non-stick, plan ahead untreated areas for future applications of stickers on boat.

SUBSTRATES AND SURFACE PREPARATION

Surfaces must be clean and as dry as conditions permit. For new and clean surfaces, wipe the surface with cloth and MIRAPAKON™ WP100 prior to coating. For best results, remove any previous anti-fouling, foul release coatings, or any other coating before application. Employ adequate methods to remove dirt, dust, oil, wax, grease and all other contaminants that could interfere with the adhesion of the coating. Protect bare steel with a primer suitable for continuous marine immersion before preparation with WP100 and application of MIRAPAKON™ MK300.

APPLICATION METHOD & EQUIPMENT

Two coats of MIRAPAKON™ MK300 are recommended. The very low viscosity of the product, similar to water (5-6 cP), allows a faster application; up to two times faster than any other viscous coating. The fast polymerisation of the product avoids generation of leaks or accumulations. **Brush:** Use a foam brush. A 2 mils (50 microns) film will be generated for a coverage of 600 sq.ft./USG (15 m²/L).

Roller: Use a smooth or super smooth foam type roller and a roller pan. Coat small areas, approximately 3 sq.ft. (0.5 m²), avoiding extensive re-rolling. A 1.4 mils (35 microns) film will be generated for a coverage of 1000 sq.ft./USG (25 m²/L). Dispose of the roller after use.

Conventional spray gun: Use a spray gun equipped with a 1.1 mm needle under only 10 psi pressure. Apply back and forth vertically then horizontally. Crossed pattern will generate a 1.4 mils (35 microns) film for a coverage of 600 sq.ft./USG (15 m²/L), taking into account 25% loss through atomisation.

CURING SCHEDULE

Allow coating to tack over between coats. Tack time will vary (about 1 hour). The hydrophobic protection is 100% generated at that point and the film is chemically bonded to compatible groups on the surface. The surface will remain elastic to the touch for a long period. Protect the surface from mechanical wear (scratches, friction) to avoid removing the film until the film reaches its final strength, on a period up to 30 days. Launching to water will speed up the catalytic reaction of the film. Sanding between coats application to remove surface imperfections may be accomplished after 24 hours by using a 220 or 350 grit sanding block.

MIXING AND THINNING

This system is ready to use and requires no mixing. The product should not be thinned.

RE-APPLICATION

Insure surface is clean and simply re-apply over existing coat. Protection is multi-season (24 months) and Haul-Out and Re-Launch is possible without careening (if surface is clean) during that period.

SANDING

No sanding is required between coats. No sanding is required before re-application, it is not necessary to remove existing coat of MIRAPAKON™ MB100, MG170 or MK300.

CLEANUP AND SAFETY

Cleanup

Use MIRAPAKON™ WP100. In case of spillage, absorb and dispose per local regulations.

Safety

Follow all caution statements on this product data sheet and on the SDS for this product. Employ normal workmanlike safety precautions. Wear appropriate Personnel Protective Equipment. Wear safety glasses at all time.

Respiratory Protection

Using a spray gun in a well ventilated area, a dust mask is sufficient, for all indoor application with limited ventilation a mask with 3M 6003 cartridges type or equivalent shall be used.

HANDLING & STORAGE

Store indoors in a fresh and dry area. Immediately close container after transferring product to application container.

Application Conditions

Condition	Material	Surface	Ambient	Humidity
Normal	60-85 °F	60 °F	60-80 °F	20-95%
Minimum	55 °F	50 °F	55 °F	20%
Maximum	100 °F	90 °F	100 °F	95%

Curing Schedule

Surface Temperature	Dry to Touch	Final Cure
Normal	4 hours	36 hours
Minimum	6 hours	48 hours
Maximum	2 hours	24 hours

Technical Data

Theoretical Coverage	600-1000 sq. ft./USG (15-25 m ² /L)
Application Temperature	>55 °F Ambient
Density	0.87
Shelf Life	18 months if sealed, partial usage and/or multiple container openings may decrease shelf life.

Disclaimer:

Marine coating performance depends upon factors such as surface condition, application technique and application environment. Accordingly, MIRAPAKON™ warrants solely that MIRAPAKON™ MK300 is conform to product specifications at the time of initial retail sale.

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