

MIRKA

MARINE
SURFACE FINISHING





About Mirka

Mirka Ltd is a family-owned Finnish company and a world leader in abrasives technology innovation. We offer a complete range of technically superior, high-quality abrasives, innovatively designed tools, complete sanding systems and supplementary products. This total innovative solution delivers real benefits to customers in terms of speed, first-class efficiency, surface finish quality and cost-effectiveness, even when tackling the most demanding applications.

Mirka is the first company in its sector to obtain the three most important quality standards: The production process guarantees reliable quality by following the ISO 9001 quality assurance system. The OHSAS 18001 occupational health and safety management system ensures a high level of work safety. The ISO 14001 environmental management system proves that we consider the environment in all our activities. 97 percent of our products are exported and sold across the globe through our subsidiaries and importers.

> Read more: mirka.com

Contents

PLUG AND MOULD SANDING	4	RESTORING BOAT SURFACES	13
PLUG AND MOULD FINISHING	6	INTERIOR HIGH GLOSS PROCESS	14
CONDITIONING OF GEL COAT	8	SOLID SURFACE PROCESS	15
POLISHING SOLUTIONS FOR BOATS	9	FROM CLEANING TO FINISHING	16–17
RESTORING ACRYLIC GLASS AND GLASS WINDOWS	10	PAINT RECTIFICATION	18
TEAK DECK MAINTENANCE	11	SUSTAINABILITY	19
SANDING BELOW WATERLINE	12		



Perfect surfaces for tough conditions

Facing harsh conditions with salt, water and wind, marine surfaces need to be built to last, as well as regularly maintained and expertly refurbished to keep that first-class look. When it comes to marine surface finishing, from boat manufacturing – including high-end yacht production – to boat refurbishing and restoration, Mirka can deliver.

Choosing dust-free and ergonomic Mirka products isn't only a health-conscious choice, but it will also improve your profitability, productivity and efficiency.

Mirka's sanding, compounding and polishing products together with our award-winning tools suit everything from heavy-duty sanding of composite moulds to smoothening out the final gel coat finish – from small scale to high volume production.

If you are looking for high-rate efficiency and a world class finish for your marine surfaces; read on to learn more about innovative solutions that give you better results with fewer steps.

PLUG AND MOULD **SANDING**

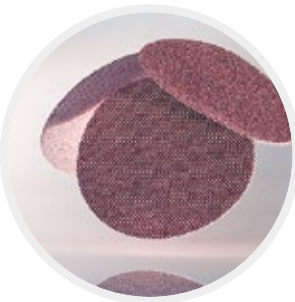
It all starts with building a frame. When sanding fibreglass plugs and moulds, our net and multihole abrasives, ergonomic sanders and efficient dust extraction improve work safety and allow you to work faster and more efficiently. Mirka has pneumatic and electric sanders for a range of applications, which can be used in combination with Mirka's abrasives, such as Abranet Ace and Abranet Ace HD from the net sanding range and Novastar from the film abrasive range. Novastar film abrasive's precision coating makes it highly durable and clog resistant, with excellent edge wear resistance. The Abranet Ace range's durable net construction and ceramic grains mean that it cannot be beaten when it comes to performance, not to mention offering similarly optimised dust extraction capacity.

ABRASIVES



Abranet® Ace

Abranet® Ace – offers superior cut and performance for more demanding sanding applications, with an optimised net construction and ceramic grains.



Abranet® Ace HD

Abranet® Ace HD – resists high wear and tear and is ideal for heavy-duty applications.



Novastar®

Novastar® – aggressive initial cut for heavy duty applications in coarser grits. Long lasting film-backed disc with excellent edge wear resistance and flatness. Can be used for wet sanding.



SANDING TOOLS AND ACCESSORIES

PNEUMATIC TOOLS



Mirka® ROS2 850CV



Mirka® PROS 650CV



Mirka® OS 383CV



Mirka® ROS2 510CV



Mirka® RPS 300CV



Hose
27 mm x 5,5 m
(with integrated pneumatics)

ELECTRIC TOOLS



Mirka® DEROS 650CV / 680CV



Mirka® DEOS 383CV



Hose 27 mm x 5,5 m
(5 m CE 230 V with integrated cable)



Hose 27 mm x 10 m
(10m CE 230 V with integrated cable)

HAND SANDING BLOCKS



File Board 70 x 400 mm
hard / flexible



Sanding block 70 x 198 mm

DUST EXTRACTION



Mirka® Dust Extractor 1025 L, 1230/1242 M

PLUG AND MOULD FINISHING

When the time comes to add the finishing touches, Mirka's range has everything you need. You can pre-treat the surface prior to polishing, with a film or foam backed abrasive. You can also work more efficiently with Mirka's pneumatic or electric tools.

Choose the best abrasive for the job at hand: **Polarstar** film offers outstanding performance on hard gel coats, whilst **Microstar** is designed especially for matting surfaces. If you are familiar with using foam-backed abrasives, **Abralon** is a great choice for finishing prior to polishing. The patented, flexible construction allows it to create an even surface while minimising the risk of pressure marks.

ABRASIVES



Polarstar®

Polarstar® – particularly effective for mould sanding on hard gel coats and scratch resistant clear coats.



Abralon®

Abralon® – specially developed for surface preparation and finishing prior to polishing.



Microstar®

Microstar® – designed for matting and paint rectification of top- and clear coat.



POLISHING



Polarshine®

Polarshine® 10 – a medium coarse polishing compound designed to achieve a better end result after sanding with just one round of polishing.





FINISHING TOOLS AND ACCESSORIES

PNEUMATIC AND CORDLESS TOOLS



Mirka® ROS 325CV



Hose
27 mm x 5,5 m
(with integrated pneumatics)



Mirka ARP-B 300NV
77mm 10.8V 2.5Ah
(rotary polisher)



Mirka AROP-B 312NV
77mm 10.8V 2.5Ah
(12mm random orbital polisher)

ELECTRIC TOOLS



Mirka® PS 1437
polisher 150mm



Mirka® PS 1524
polisher 180mm

ACCESSORIES



Polarshine® 10
is a medium coarse compound which leaves a high gloss finish.



Polarshine® 12 Black and a black waffle pad is recommended for dark-colored surfaces.



Polarshine® 35 is a coarse polishing compound developed for demanding Marine applications.



Polarshine® 45 is a very coarse polishing compound ideal for marine and industrial gelcoats.



Polishing pads



CONDITIONING OF GEL COAT

Gel coated surfaces are easy to restore to top condition with the help of Mirka solutions. Sand the surface by machine with the Abralon sander, and then remove the swirl marks by polishing the surface with Polarshine polishing compound. Next, protect the surface with Polarshine Marine Shield coating. Find the perfect product for your polishing needs with this handy coarseness scale. We also offer comprehensive finishing kits, making your job even easier.



- USE:**
- Abralon® 2000 & 4000
 - Machine sanding with a random orbital sander



- USE:**
- Polarshine® 35 + yellow wool pad
 - OR
 - Polarshine® 45 + twisted wool pad



- USE:**
- Polarshine® 10 + yellow polishing pad



- USE:**
- Polarshine® Marine Shield

TOOLS AND ACCESSORIES



Mirka® DEROS 650CV



Mirka® PS 1437 polisher



Abralon® – developed especially for pre-treating and finishing surfaces prior to polishing (Abralon® 2000, 4000).



Polarshine® 10 – medium coarse polishing compound producing a high-gloss finish.

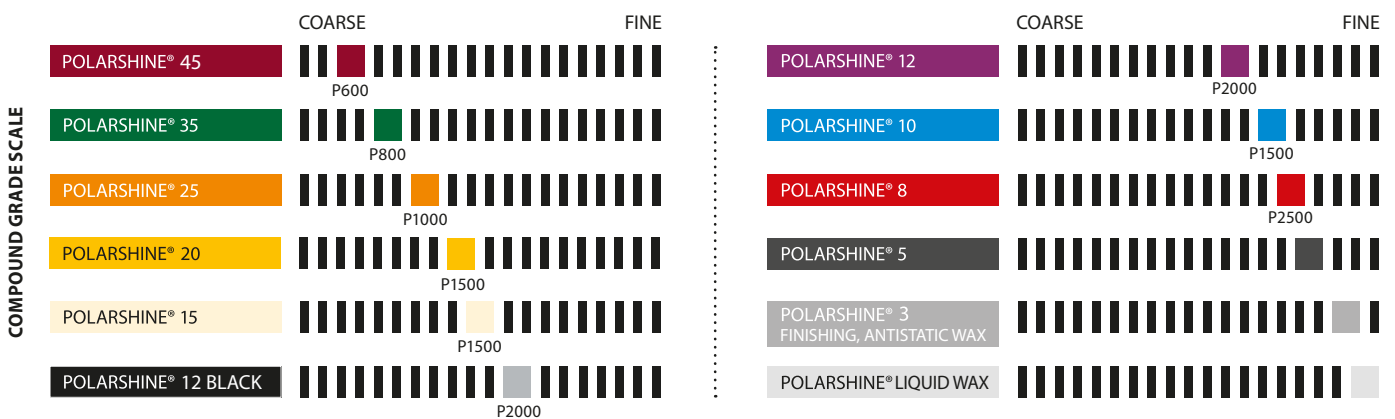


Surface protection:
Polarshine® Marine Shield

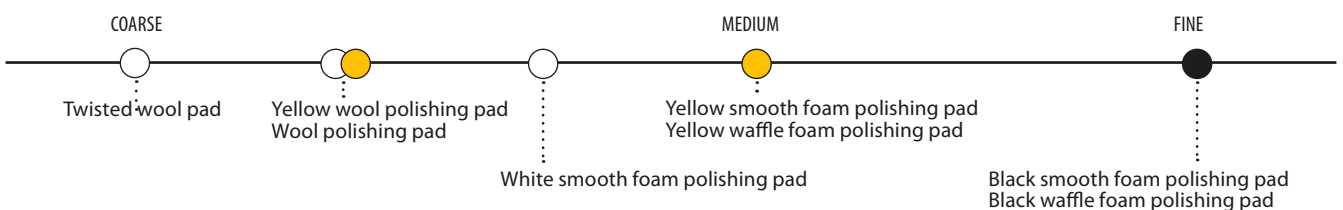
POLISHING SOLUTIONS FOR BOATS



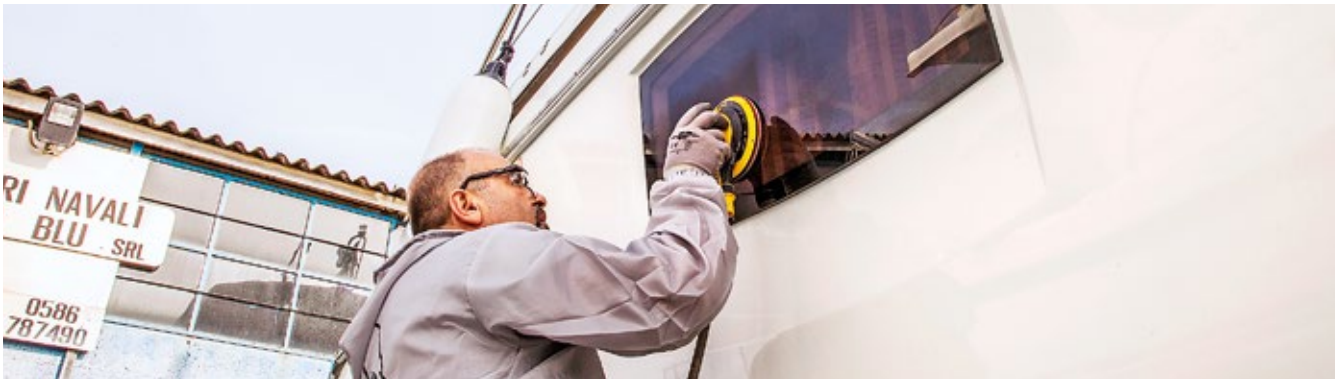
Treating hard surfaces that are regularly exposed to tough conditions requires professional polishing compounds that give long-lasting results. Water-based and silicone-free Polarshine contains no solvents or fillers. Coarse and effective Polarshine® 45 removes sanding scratches from hard surfaces. Can be used for one-step polishing of white and light-coloured surfaces. For darker colours, we recommend a second step with Polarshine® 10 to remove swirl marks and Polarshine® 5 to remove holograms.



POLISHING PADS



RESTORING **ACRYLIC/GLASS**



Scratches and minor imperfections can accumulate on acrylic glass and glass windows. Instead of replacing the entire piece, why not restore it: marks can be easily removed with Mirka products by sanding and polishing.

Based on how deep the scratches are and the quality of the material, Mirka has various solutions to produce excellent results.

SANDING STEP

Deep scratches

First use P500 – P800 (Abranet® Ace)
– 1000 – 3000 (Abralon®)

Small defects

Use 1000 – 3000 (Abralon®)



Abranet® Ace has been developed for challenging applications. Thanks to the optimised net construction and ceramic grains, Abranet Ace offers a superior cut and performance.



Abralon® – developed especially for pre-treating and finishing surfaces prior to polishing.



POLISHING



Polarshine® 35



Yellow natural lamb's wool



Mirka® PS 1437 polisher



POLISHING



Polarshine® 10



Yellow waffle foam pad



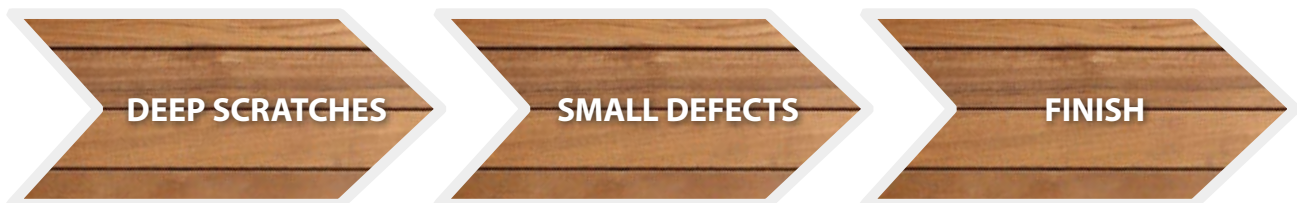
Mirka® PS 1437 polisher

TEAK DECK MAINTENANCE



When working on teak decks, a dust-free working environment is vital. Wood dust exposure is particularly harmful to the lungs. Use Mirka's dust-free sanding solutions, which combine pioneering net abrasives with ergonomic tools and effective dust extractors.

Based on the condition of the teak deck and the seriousness of the damage, we recommend using either Abranet Ace or Novastar abrasives, which offer grit ranges of P80–P120–P180.



Abranet® Ace – developed for challenging applications. Thanks to the optimised net construction and ceramic grains, Abranet Ace offers a superior cut and performance.



Novastar® – an abrasive designed for aggressive and challenging applications. The long-lasting film-backed disc offers excellent edge wear resistance and flatness.



TOOLS & ACCESSORIES



Mirka® DEROS 650CV



Dust extraction hose
with integrated cable



Mirka® Dust Extractor
1230 L AFC

SANDING BELOW WATERLINE

When sanding below the waterline, we recommend our dust-free sanding solutions – whether you're working on new or old fibreglass surfaces.

Abranet Ace HD can endure tough wear and tear, making it ideal for heavy-duty and challenging applications: use it with Mirka's electric or pneumatic sanders and dust extraction machines or polishers fitted with a dust suction hood.

Mirka's film-backed, multihole Novastar abrasive produces excellent results, especially on hard surfaces. Its precision coating repels dust, meaning that it does not clog, and its grits stay sharp for longer.



Abranet® Ace HD



Novastar®

TOOLS AND ACCESSORIES



Mirka® Deros 650CV



Mirka® ROS2 650CV



Mirka® Dust Extractor 1242 M AFC



Mirka® PS 1437 polisher



Dust suction hood for PS1437 polisher



With backing pad 125 mm M14 Grip 17R for dust extraction tools

RESTORING BOAT SURFACES

RESTORING BOAT SURFACES, THE MIRKA WAY. FROM DEEP CLEANING TO APPLYING A COATING.

Cleaning stages



**Polarshine®
Marine
Deep Clean**

The product contains oxalic acid, which is perfect for removing organic dirt. Spray onto the surface you are going to be cleaning and leave to work for 5–10 minutes. Rub with a brush or sponge and rinse thoroughly with water. Always remember to neutralise with Polarshine Marine Wash.



**Polarshine®
Marine
Boat Wash**

Start by spreading the product from the bottom upwards and leave to work for around 1–5 minutes.

If necessary, use a sponge or brush on stubborn dirt.

Rinse



Remember to rinse thoroughly after every stage.

Sand



If surface is heavily worn, carry out wet sanding using the Mirka method.

POLISH AND COAT

Polish



Make sure the surface is dry before you start polishing.

Polarshine 10 and a yellow wool pad are recommended for light-colored and white surfaces.

For dark-colored surfaces we recommend Polarshine 12 Black and a black waffle pad.

900–1100 rpm

Final Finish



Use Polarshine Marine Final Finish to remove any leftover traces of polishing compound.

Coat



The surface should also be moist from washing. Spray Polarshine Marine Shield directly onto the area to be coated or a Mirka sponge.



Go over all areas to be treated thoroughly. Rinse off the treated surface with water and finish by drying.

Note.

Avoid contact with surfaces treated with anti-fouling paint. The product may react strongly on surfaces treated with anti-fouling paint, depending on the composition used by the paint manufacturer. Never spread the coating on glass or other reflective surfaces.

Polarshine Marine Shield must not be spread on surfaces that are over +25 °C. Never allow the product to dry completely on the surface being coated – rinse thoroughly before hardening. Please note that the sun and wind will affect the drying time of the coating.



Watch the whole video on mirka.com or our youtube channel


INTERIOR HIGH GLOSS PROCESS

👉 SINGLE COMPOUND POLISHING PROCESS – POLARSHINE® 10

Comprehensive solutions: With Mirka products you can achieve high-gloss end results in indoor spaces with a one or two compound polishing process.

Defect removal		Compounding	Polish / Finish
<p>Remove defects: sand with Microstar® P800/P1200. Sand with medium speed, 7,000–8,000 rpm.</p>	<p>Reduce scratches: use Abralon® 3000 damp sanding. Sand with low speed, 6,000 rpm.</p>	<p>Use Polarshine® 10 and Mirka Lambswool Pro pad.</p>	<p>Use Polarshine® 10 and Mirka Yellow Waffle pad. Wipe and do final cleaning with Mirka soft microfiber cloth.</p>

👉 2 COMPOUND POLISHING PROCESS – POLARSHINE® 35 + 10

Defect removal	Compounding	Polish / Finish	
<p>Remove defects: sand with Microstar® P800/P1200. Sand with medium speed, 7,000–8,000 rpm.</p>	<p>Use Polarshine® 35 and Twisted lambswool pad.</p>	<p>Use Polarshine® 10 and Mirka Yellow Waffle pad to remove swirls and holograms. Wipe and do final cleaning with Mirka soft microfiber cloth.</p>	<p>Note. For best result, use the right combination of compound/pad and Soft edge backing pad:</p>  <p>Backing pad 135 mm, M14 soft Code: 8297902011</p>

SOLID SURFACE PROCESS

Solid surfaces, such as composite, DuPont Corian and other combined materials can be sanded and polished using the Mirka process. The recommended process produces an optimal finish when carried out with the right abrasives, polishes, tools and accessories.

MATTE FINISH

Use the following Novastar grit sizes and finish with Mirlon VF.



SATIN FINISH

Use the following Novastar grit sizes and finish with Mirlon VF and Mirlon Total XF (use a Spacer interface with Mirlon).



GLOSSY FINISH

Use the following Novastar grit sizes and finish with Abralon (damp).



HIGH GLOSS FINISH

Use the following Novastar grit sizes and continue with Abralon discs. Finish with a polisher and Polarshine 10 + lambswool pad.



MIRKA COMPLETE SANDING SYSTEM



Novastar®, Mirlon® and Abralon® discs



Mirka® DEROS 650CV



Vacuum hose 4 m

Mirka® Dust Extractor 1230 L AFC



MIRKA COMPLETE POLISHING SYSTEM



Mirka® PS 1437 polisher 150mm



Lambswool pad 150 mm

Polarshine® MARINE

FROM CLEANING **TO FINISHING**

Mirka's Polarshine® Marine range features everything you need to keep your boat in top condition, from cleaning compounds to finishing and long-lasting coatings. Alongside its sanding and Polarshine polishing compounds, Mirka offers a complete solution to ensure the surface of your boat stays like new from one boating season to the next.

CLEANING PRODUCTS

POLARSHINE® MARINE DEEP CLEAN



Deep cleaning solution concentrate

Polarshine Marine Deep Clean is a highly effective, oxalic-acid-based, deep cleaning concentrate for cleaning of the boat's scum line and hull. The product's gel-like consistency, and combination of surfactants and oxalic acid dissolve any yellowing and stubborn dirt highly efficiently. Excellent for use on organic dirt. After using Deep Clean, remember to always neutralise the surface with a product such as Boat Wash.

POLARSHINE® MARINE BOAT WASH



Boat shampoo

Polarshine Marine Boat Wash is a top quality boat shampoo containing brightening wax and is suitable for use on all surfaces washable with water, such as aluminium, gel coatings, varnish, paint, wood, steering top covers, canopies and metal surfaces. The product's highly efficient surfactant formulation removes stubborn dirt such as grease, oil, soot, spilt fuel, salt residue, etc. gently from all surfaces.



FINISHING AND COATING

POLARSHINE® MARINE FINAL FINISH



Cleaning and finishing compound

Polarshine Marine Final Finish is a high-quality, silicone-free cleaning and finishing compound for all boat surfaces. It works as a powerful cleaning agent to remove polishing paste, finger prints, sooty smudges and other impurities.

POLARSHINE® MARINE SHIELD











Heavy-duty ceramic coating







A heavy-duty ceramic coating containing gloss polymers and offering lasting protection for gel coat, paint, aluminium, steel, plastic and varnish surfaces. Protect your surface from UV radiation, salt water, oxidation, bird droppings, and other impurities. Polarshine Marine Shield coating powerfully repels impurities and can withstand strong detergents, making it easier to carry out a thorough clean at the end of the boating season. The product's surfactant components prevent droplets of water from adhering to the surface of the boat by creating a hydrophobic and high-gloss finish that is particularly hard-wearing.

PAINT RECTIFICATION

▾ SINGLE COMPOUND POLISHING SOLUTION

Defect removal		Compounding	Polish / Finish
			
			
<p>Remove defects: use Microstar® P1200 or P1500 + 5 mm interface pad. Sand with medium speed, 6,000–7,000 rpm.</p>	<p>Reduce scratches: use Abralon® 3000 damp sanding. Sand with low speed, 6,000 rpm.</p>	<p>Use Polarshine® 10 and Mirka® Lambswool Pro pad. Polishing speed max. 1,500 rpm.</p>	<p>Use Polarshine® 10 and Mirka® Yellow waffle pad. Wipe and do final cleaning with Mirka soft microfiber cloth. Polishing speed max. 1,500 rpm.</p>

▾ 2 COMPOUND POLISHING SOLUTION

IF NEEDED: Defect removal	Compounding	Polish / Finish	
			<p>▾ Use Microstar® for soft fresh paint.</p> <p>▾ Use Polarstar® for hard paints.</p> <p>Note. For best result, use moderate speed 1,200–1,500 rpm to achieve a better cutting performance!</p> <p>For dark-coloured surfaces we also recommend Polarshine 5 + a yellow waffle pad to remove holograms.</p>
			
<p>Remove defects: Use Microstar® P1200 or P1500 + 5 mm interface pad. Sand with medium speed, 6,000–7,000 rpm.</p>	<p>Use Polarshine® 35 and Mirka® Lambswool Pro pad. Polishing speed max. 1,500 rpm.</p>	<p>Use Polarshine® 10 and Mirka® Yellow waffle pad. Wipe and do final cleaning with Mirka soft microfiber cloth. Polishing speed max. 1,500 rpm.</p>	



Sustainability at Mirka

We proactively look for ways to **reduce the environmental footprint of our products**. We do not use chemicals on the List of Substances of Very High Concern (SVHC) and are in full compliance with the EU's Registration, Evaluation, Authorisation and Restriction of Chemicals legislation (REACH). Below are some of the other advancements we are making.

- **Developing new low-energy technologies.** This decreases the amount of energy needed to manufacture our coated abrasives.
- **Switching to a non-heavy metal colouring agent.** This reduces the amount of heavy metal in our products.
- **Improving the handling and processing of waste resin.** This ensures better health and safety for our workforce and decreases the chance of disposal hazards.
- **Innovating new catalyst technology.** This makes our thermal machine lines more efficient, reducing the energy consumption needed to make our products.
- **Designing efficient product transport routes.** This reduces our carbon footprint.



Read more: mirka.com/sustainability





Mirka Ltd
Finland

Brazil Mirka Brasil Ltda.

Belgium Mirka Belgium Logistics NV

Canada Mirka Canada Inc.

China Mirka Trading Shanghai Co., Ltd

Finland & Baltics Mirka Ltd

France Mirka France Sarl

Germany Mirka GmbH

India Mirka India Pvt Ltd

Italy Mirka Italia s.r.l., Cafro S.p.A

Mexico Mirka Mexicana S.A. de C.V.

Russia Mirka Rus LLC

Singapore Mirka Asia Pacific Pte Ltd

Spain KWH Mirka Ibérica S.A.U.

Sweden Mirka Scandinavia AB

Turkey Mirka Turkey Zimpara Ltd Şirketi

United Kingdom Mirka (UK) Ltd

United Arab Emirates Mirka Middle East FZCO

USA Mirka USA Inc.

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