



Marine applications

ORACAL®

ORAJET®

ORALITE®

ORAGUARD®

ORALUX®

Engineered to Perform Better™



ORAFOL Europe GmbH

ORAFOL's Worldwide Locations





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Marine applications

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Premium Structure Cast

ORACAL® 975

Exciting boat tuning film in a range of **different textures** and colours. The ideal design refinement film for boat hulls or boat interiors.

Product benefits include:

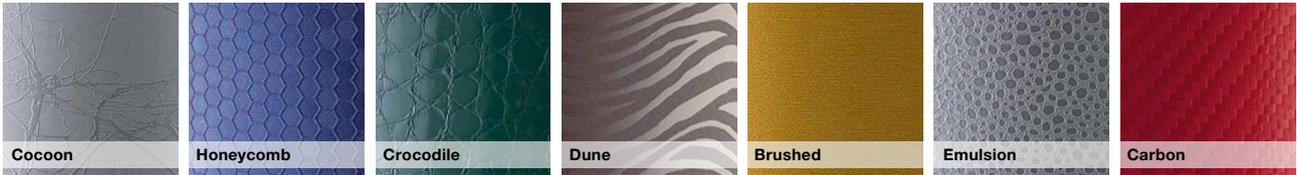
- Multi-layered cast PVC film (150 micron)
- 7 different structured optics
- Several colours each
- Solvent polyacrylate, repositionable, permanent, transparent
- Sea water resistance (DIN EN ISO 9227). Adhered to aluminium; after 100h/35°C no variation

Black Carbon: Also available in a *RapidAir®* (RA) version. The *RapidAir®* technology allows a rapid and bubble-free application.



Example of ORACAL® 975 Black carbon

Close ups:



Premium Shift Effect Cast

ORACAL® 970

Boat wrapping film with a **unique shade shifting effect** depending on viewing angle. Ideal for wrapping of boat hulls.

Product benefits include:

- Multi-layered cast PVC film (110 micron)
- Glossy or matt finish
- 9 colours
- Solvent polyacrylate, repositionable, permanent, transparent
- Sea water resistance (DIN EN ISO 9227). Adhered to aluminium; after 100h/35°C no variation

Also available in a *RapidAir®* (RA) version. The *RapidAir®* technology allows a rapid and bubble-free application.

Premium Special Effect Cast

ORACAL® 970

Same quality as standard ORACAL® 970 film but with a **unique glitter effect**.

4 NEW COLOURS

Product benefits include:

- Multi-layered cast PVC film (110 micron)
- Glossy or matt finish
- 8 colours
- Solvent polyacrylate, repositionable, permanent, transparent
- Sea water resistance (DIN EN ISO 9227). Adhered to aluminium; after 100h/35°C no variation



Example of ORACAL® 970 Special Effect



Example of ORACAL® 970 Shift Effect



Example of ORACAL® 970 Premium Wrapping Cast

Boat wrapping is the ideal alternative to boat painting, which can be a very time consuming process. You will typically be able to wrap a 12-meter boat in one or two working days, where the traditional painting process takes significantly longer. Wrapping also opens up a world of new, exciting and creative design possibilities, with printed designs, subtle design enhancements with textures, or brilliant special effects.

Boat wrapping can be done to all types of boats (above waterline).

- Significant reduction in application time
- Very affordable price, definitely cheaper than painting
- Unlike painting, vinyl wrapping does not require the time consuming task of masking off
- Environmentally friendly process for the installer
- Easy removal
- The vinyl protects original paint, so the boat hull can appear as new at the point of reselling

Premium Wrapping Cast

ORACAL® 970

Highest durability and stability

Product benefits include:

- Multi-layered cast PVC film (110 micron)
- Glossy or matt finish
- 96 colours
- Solvent polyacrylate, repositionable, permanent, transparent
- Sea water resistance (DIN EN ISO 9227). Adhered to aluminium; after 100h/35°C no variation

Also available in a *RapidAir*® (RA) version. The *RapidAir*® technology allows a rapid and bubble-free application.

CAD/CAM

Premium Cast

ORACAL® 951

Extreme durability and dimensional stability also in corrugations and on rivets

Product benefits include:

- Cast PVC film (50 micron)
- Glossy finish (white and black also available in matt)
- 146 colours
- Solvent polyacrylate, permanent, transparent
- Sea water resistance (DIN EN ISO 9227). Adhered to aluminium; after 100h/35°C no variation

High Performance Cast

ORACAL® 751C

Product benefits include:

- Cast PVC film (60 micron)
- 117 high gloss colours + matt black / white
- Adhesive: Solvent polyacrylate, permanent
- Sea water resistance (DIN EN ISO 9227). Adhered to aluminium; after 100h/35°C no variation

**NEW
COLOUR**



Example of ORACAL® 751C

Digital Printing Cast

ORAJET® 3951

Product benefits include:

- Premium Cast PVC film (55 micron)
- Glossy finish
- White and transparent
- Solvent polyacrylate, repositionable, permanent, grey or transparent
- Recommended laminating films: ORAGUARD® 290/293
- Sea water resistance (DIN EN ISO 9227). Adhered to aluminium; after 100h/35° C no variation



Example of ORAJET® 3951

Also available in a *RapidAir®* (RA) version. The *RapidAir®* technology allows a rapid and bubble-free application.



Print Polyester

ORACAL® 301F

For screen printed decorative labels and doming applications

Product benefits include:

- Polyester film (50 micron)
- White gloss, metallised chrome or chrome brushed
- Modified solvent polyacrylate, permanent, transparent
- Sea water resistance (DIN EN ISO 9227). Adhered to aluminium; after 100h/35°C no variation

Digital Printing Polyester

ORAJET® 3301F

For digitally printed decorative labels and doming applications.

Product benefits include:

- Polyester film (50 micron)
- Metallised chrome or chrome brushed
- Modified solvent polyacrylate, permanent, transparent

Boat wrapping unleashes unlimited possibilities for creating unique and personal designs, whilst at the same time benefitting from quick application times and a more environmentally friendly decoration solution.



The high quality films from ORAFOL create unlimited design possibilities for boat interiors; from wall art decorations, privacy instalments on glass partitions, textured design enhancements on dashboards – to photoluminescent exit signs. Different applications require different solutions, and within the range from ORAFOL you will find all the specialised films needed. Furniture and construction parts do not have to be removed when being refurbished.

Wall Art

ORACAL® 638

The wall art film will provide room for personality and individuality to any boat interior.



Example of ORACAL® 638

Product benefits include:

- Soft PVC film (80 micron)
- Matt surface
- 57 colours
- Polyacrylate, easily removable, transparent

The ORACAL® 970/975 are also perfect for applications to the interior of the boat. For product details please see pages 4/5.

Photoluminescent Signs and Labelling

For markings of danger spots and decorative elements that are visible at night

Photoluminescent Cast

ORAJET® 3930

Digital printing film with photoluminescent properties, for indoor and outdoor markings.

Product benefits include:

- Three-layered, light yellow, cadmium-free, high performance cast PVC film (150 micron)
- Glossy surface
- Ink-jet printing with solvent based inks, UV- or Latex inks
- Recommended laminating film: ORAGUARD® 293
- Solvent polyacrylate, permanent, transparent



Example of ORAJET® 3930

Photoluminescent Cast

ORALUX® 9300

For photoluminescent markings, applied indoors.

Product benefits include:

- Photoluminescent cast PVC film (150 micron)
- Screen printing
- Glossy satin surface
- Solvent polyacrylate, permanent, transparent



Example of ORALUX® 9300

Metallised Films

For decorative labels, name- and technical plates, decorations and symbols

Ultraleaf Cast

ORACAL® 383

Unique pressure sensitive film for lettering, marking and decoration of windows and signs with highest requirements for long outdoor durability.

Product benefits include:

- Metallised cast alkyd resin film (85 micron)
- High-gloss finish
- 3-dimensional embossed in chrome and glossy gold
- Solvent polyacrylate, permanent, transparent

Polyester Film

ORACAL® 351

**NEW
COLOUR**

This high-gloss metallic film is available in a double-sided version, providing outstanding effects when applied onto transparent surfaces.

Product benefits include:

- Metallised polyester film (23 micron / 50 micron)
- Chrome, matt chrome, chrome-brushed, gloss gold on both sides and rose gold
- Top coated surface for printing
- Solvent polyacrylate, permanent, transparent

Print Polyester

ORACAL® 352

Print polyester for labels and decorations

Product benefits include:

- Transparent, white or metallised polyester film (23 or 50 micron)
- Transparent, white and in chrome, matt chrome, brushed chrome and gold
- Outstanding dimensional stability and a good ageing behaviour
- Solvent polyacrylate, permanent

Digital Printing Polyester

ORAJET® 3350

For digitally printed labels and decorations

Product benefits include:

- Metallised polyester film (50 micron)
- Chrome and gold
- Solvent polyacrylate, permanent



ORACAL® 301F and ORAJET® 3301F are also perfect for interior applications (see page 7).



Whether for artistic effect or simply to create privacy, the range of glass decoration films by ORAFOL is the perfect cost-effective alternative to traditional etched glass.

Etched Glass Cal

ORACAL® 8510

Used for decorative designs on windows and glass doors. Available in gold and silver-grey in coarse and fine textures.



Product benefits include:

- Polymeric PVC film (80 micron)
- Coarse and fine texture
- Wet application is recommended
- Available also with *RapidAir*® for extra easy application (8510RA)
- Solvent polyacrylate, permanent, transparent

Dusted Glass Cal

ORACAL® 8710

Creates the look of a rough glass surface.

Product benefits include:

- Polymeric PVC film (70 micron)
- Medium glossy surface prevents unwanted light reflections
- Wet application is recommended
- Solvent polyacrylate, permanent, transparent

Frosted Glass Cast

ORACAL® 8810

For extra high quality glass decoration of glass partitions and glass doors. Five soft colours available with a sparkling effect.



Product benefits include:

- Cast high-performance PVC film (80 micron)
- Eye-catching, glamorous glitter effects
- Excellent resistance to weathering and UV
- Wet application is recommended
- Solvent polyacrylate, permanent, transparent

Digital Printing Film

NEW

ORAJET® 3851

For digitally printed glass decorations of glass partitions and glass doors.

Product benefits include:

- Polymeric PVC film (80 micron)
- Silvergrey with a fine structure
- Wet application is recommended
- Solvent polyacrylate, permanent, transparent



Example of ORACAL® 8810

Surface Guard Films

Use an ORAGUARD® paint protection film for extra protection of areas exposed to mechanical stress. This will ensure long-term durability of boat surfaces. The films are all highly transparent, glossy, highly UV resistant, and with excellent tear strength.

Stone Guard Films

ORAGUARD® 280 / 280F / 283 / 283F

ORAGUARD® 280 / 280F
product benefits include:

- Polyurethane film (200 micron)
- Outstanding transparency and gloss
- Solvent polyacrylate, permanent
- Sea water resistance (DIN EN ISO 9227). Adhered to aluminium; after 100h/35° C no variation

ORAGUARD® 283 / 283F
product benefits include:

- Polyurethane film (130 micron)
- Highly transparent
- Glossy
- Solvent polyacrylate, permanent
- Sea water resistance (DIN EN ISO 9227). Adhered to aluminium; after 100h/35° C no variation

Vinyl Treatment Products

ORACAL® Cleaning and Care Products

The series of ORACAL® after care products have been specifically developed for proper surface treatment of the wrapping films from ORAFOL. All the products have been engineered to enable consistent, excellent results. With the ORACAL® cleaning and care agents you can be sure that you are always working with professional treatment products for your boat.

The products are supplied in complete care kits, with versions for glossy or matt surfaces. Each kit contains:

- 500 ml Shampoo
- 500 ml Intensive Cleaner
- 500 ml Fast Care Agent
- 500 ml Long-Lasting Seal
- 2 x special Cleaning Sponges

Each item in the kit is also available for purchase separately (in batches of 4).



Please refer to the full application instructions on www.orafol.com

Other marine applications



With the high-quality graphic films from ORAFOL, there are endless application possibilities for exploring creativity and individual designs within the maritime world. Any low energy surfaces on e.g. Jet Skis, kayaks, surfboards and much more can be decorated. Special films are also available where very high-tack is required, or applications are to be done over very rough surfaces such as hammerschlag.

Contact ORAFOL and let us guide you to the best products for your specific application.

Since 1980 our retroreflective materials have been used at sea to improve detection during night-time search and rescue missions. The microprismatic technology lengthens the detection sighting distance compared to traditional reflective materials. The FD tapes comply with SOLAS/IMO requirements and are approved by the European BV as well as the US Coast Guard.

ORALITE® FD 1403

For harsh maritime applications, e.g. sew on PFDs and spray-wear, as well as devices and equipment with rigid substrates such as steel and aluminium.

Product benefits include:

- Retroreflective microprismatic tape
- Silver colour
- Pressure sensitive adhesive or textile backing
- No risk of water penetration
- Designed to withstand continuous immersion in sea water and extreme temperatures
- IMO Res. A.658(16) Type I and II

ORALITE® FD 1404

Flexible marine tape for inflatable devices, inflatable PFDs and immersion suits.

Product benefits include:

- Retroreflective microprismatic tape
- Flexible
- Silver colour
- Pressure sensitive adhesive backing
- No risk of water penetration
- Designed to withstand continuous immersion in sea water and extreme temperatures
- IMO Res. A.658(16) Type I

ORALITE® VC 310 Marine

Retroreflective film for application to rigid boat surfaces, visible at distances of more than one kilometer

Product benefits include:

- Retroreflective microprismatic film
- Red, yellow, blue, green and silver
- Pressure sensitive adhesive backing
- Wide widths available (775 mm)



Example of ORALITE® FD 1404



Example of ORALITE® FD 1403



Example of ORALITE® FD 1404

| Films | Product | Short name | Front material | Colours / surfaces Gloss (G), Matt (M), Supermatt (SM) | Adhesive | Covering material | Recommended lamination film (where applicable) |
|------------------|------------------------------|---|--|--|--|--|--|
| CAD/CAM | ORACAL® 951 | Premium Cast | Cast PVC film 50 micron | 146 colours (G) Black/white (M) | Solvent polyacrylate permanent transparent | Special silicone coated paper with extra good weeding properties 137 g/m ² | |
| | ORACAL® 751C | High Performance Cast | Cast PVC film 60 micron | 117 colours (G) Black/white (M) | Solvent polyacrylate permanent transparent | Special silicone coated paper with extra good weeding properties 137 g/m ² | |
| | ORACAL® 638 | Wall Art | Soft PVC film 80 micron | 57 colours (M) | Polyacrylate removable transparent | Silicone coated paper 135 g/m ² | |
| | ORACAL® 383 | Ultraleaf Cast | Cast metallised film 85 micron | Chrome Gold (G) | Solvent polyacrylate permanent transparent | Special silicone coated paper 135 g/m ² | |
| | ORACAL® 351 | Polyester Film | Metallised polyester film 23/50 micron | Chrome (G+M) Chrome-brushed Rose gold Gloss gold on both sides | Solvent polyacrylate permanent transparent | Special silicone coated paper with extra good weeding properties 137 g/m ² | |
| | ORACAL® 8510 | Etched Glass Cal | Special PVC film 80 micron | Gold Silver-grey | Solvent polyacrylate permanent transparent | Special silicone coated paper with extra good weeding properties 137 g/m ² | |
| | ORACAL® 8710 | Dusted Glass Cal | Polymeric PVC film 70 micron | Translucent grey | Solvent polyacrylate permanent transparent | Special silicone coated paper with extra good weeding properties 137 g/m ² | |
| | ORACAL® 8810 | Frosted Glass Cast | Cast PVC film 80 micron | 5 colours (sparkling effect) | Solvent polyacrylate permanent transparent | Special polyester film, 100 micron | |
| Wrapping | ORACAL® 970 | Premium Wrapping Cast | Cast PVC film 110 micron | 75 colours (G) 21 colours (M) black (SM) | Solvent polyacrylate repositionable permanent transparent | PE coated paper one side siliconised 143 g/m ² | |
| | ORACAL® 970 | Premium Shift Effect Cast | Cast PVC film 110 micron | 9 colours (G+M) | Solvent polyacrylate repositionable permanent transparent | PE coated paper one side siliconised 143 g/m ² | |
| | ORACAL® 970 | Premium Special Effect Cast | Cast PVC film 110 micron | 8 colours (G) 2 colours (M) | Solvent polyacrylate repositionable permanent transparent | PE coated paper one side siliconised 143 g/m ² | |
| | ORACAL® 975 | Premium Structure Cast | Cast PVC film 150 micron | Carbon: 9 colours, Brushed: 5 colours, Honeycomb: 5 colours, Crocodile: 3 colours, Cocoon: 2 colours, Dune: 2 colours, Emulsion: 2 colours | Solvent polyacrylate repositionable permanent transparent | PE coated paper one side siliconised 143 g/m ² | |
| Printing | ORACAL® 352 | Print Polyester | Polyester film 23/50 micron | Transparent, Chrome (M+G), Gold (G), Gold on both sides (G), White, Chrome brushed | Solvent polyacrylate permanent transparent | PE coated paper one side siliconised 160 g/m ² | |
| | ORACAL® 301F | Print Polyester | Polyester film 50 micron | White (G) Metallised chrome Chrome brushed | Modified solvent polyacrylate permanent transparent | Polyester film siliconised 100 micron | |
| | ORALUX® 9300 | Photoluminescent Cast | Three-layered, light yellow, cadmium-free PVC film, 150 micron | Light yellow (G satin) | Solvent polyacrylate permanent transparent | PE coated paper one side siliconised 148 g/m ² | |
| Digital Printing | ORAJET® 3951 | Digital Printing Cast | Cast PVC film 55 micron | White (G) Transparent (G) | Solvent polyacrylate repositionable permanent grey or transparent | PE coated paper one side siliconised 143 g/m ² | ORAGUARD® 293F / 293 / 290 / 290F |
| | ORAJET® 3350 | Digital Printing Polyester | Polyester film 50 micron | Chrome Gold | Solvent polyacrylate permanent transparent | PE coated paper one side siliconised 143 g/m ² | |
| | ORAJET® 3851 | Digital Printing Film | Polymeric PVC film 80 micron | Silverygrey with fine structure (090) | Solvent polyacrylate permanent transparent | Double sided PE coated paper, one side siliconised, 143 g/m ² | |
| | ORACAL® 3301F | Digital Printing Polyester | Polyester film 50 micron | Metallised chrome Chrome brushed | Modified solvent polyacrylate permanent transparent | Polyester film siliconised 100 micron | |
| | ORAJET® 3930 | Digital Printing Photoluminescent Cast | Three-layered, light yellow, cadmium-free PVC film, 150 micron | Light yellow (G) | Solvent polyacrylate permanent transparent | PE coated paper one side siliconised 143 g/m ² | ORAGUARD® 293 |
| Stone Guard | ORAGUARD® 280/280F | Stone Guard Film | Polyurethane film 200 micron | Transparent (G) | Solvent polyacrylate, permanent | 280: Siliconised Kraft paper, 137 g/m ² 280F: Siliconised polyester film, 100 micron | |
| | ORAGUARD® 283/283F | Stone Guard Film | Polyurethane film 130 micron | Transparent (G) | Solvent polyacrylate, permanent | 283: Siliconised Kraft paper, 137 g/m ² 283F: Siliconised polyester film, 100 micron | |

☐ Service lives given here are only valid for vertical application in climate zone 1 in marine environments. For other climate zones and more details see the application instructions.
For printing materials, the service lives given are only valid for unprinted films.

Reflective Materials

| Product | Short name | Product Approval | Colours / surfaces | Backing | Approval |
|----------------------------|------------|---|--|----------------|--|
| ORALITE® FD 1403 | Imo | IMO resolution A.658(16) Type I and II | Silver (G) | PSA or textile | U.S. Department of Transportation specification USCG 46 CFR, section 164.018 and International Maritime Organisation (IMO) resolution A.658(16) Type I & II. |
| ORALITE® FD 1404 | Imo Flex | IMO resolution A.658(16) Type I | Silver (G) | PSA or textile | U.S. Department of Transportation specification USCG 46 CFR, section 164.018 and International Maritime Organisation (IMO) resolution A.658(16) Type I. |
| ORALITE® VC 310 | Marine | n/a | Silver (G), Red (G), Yellow (G), Blue (G), Green (G) | PSA | n/a |

| Recommended application tapes | Area of use | Adhesive Power | Minimum appl. Temp. | Service life for marine applications ¹ | Widths (mm) | | Lengths (m) |
|---|--|--|---------------------|--|-------------------------------|------------------------------------|--|
| | | | | | | | |
| ORATAPE® HT 95, LT 52, LT 95, MT 52, MT 72, MT 80P, MT 95 | Outdoor and indoor use. For full colour wrapping, or single colour decals. | 18 N/25 mm | > +8° C | Black/white: 8 years Transparent/coloured: 6 years, Metallic: 4 years selected colours*: 2 years | 1260 1000 630 500 | 378 (white + transp. only: 914) | 50 |
| ORATAPE® HT 95, LT 52, LT 95, MT 52, MT 72, MT 80P, MT 95 | Outdoor and indoor use. For full colour wrapping, or single colour decals. | 18 N/25 mm | > +8° C | Black/white: 6 years Transparent/Coloured: 5 years, Metallic: 3 years Gold L, Brilliant Blue L: 1 year | 1260 1000 914 630 | 500 378 | 50 |
| ORATAPE® LT95 | Indoor use. For short term wall decorations. | 6 N/25 mm | > +10° C | 2 years | 1260 1000 630 | 500 378 | 50 |
| ORATAPE® HT 95, LT 52, LT 95, MT 52, MT 72, MT 80P, MT 95 | Outdoor and indoor use. Metallised film for decorative labels, name- and technical plates, decorations and symbols. 3 dimensional embossed texture. | 16 N/25 mm | > +10° C | 5 years | 1220 | | 50 |
| ORATAPE® HT 95, LT 52, LT 95, MT 52, MT 72, MT 80P, MT 95 | Outdoor and indoor use. Metallised film for decorative labels, name- and technical plates, decorations and symbols. Available as double sided gold for applications that are seen from both sides. | 12 N/25 mm | > +8° C | 2 years Gold (G): 1 year | 1260 1000 630 | 500 378 | 50 |
| ORATAPE® HT 95, LT 5, LT 95, MT 52, MT 72, MT 80P, MT 95 | Indoor and outdoor decorative design uses on glass, especially shop windows and doors. | 18 N/25 mm (on glass) 16 N/25 mm (on acrylic glass) | > +8° C | 7 years | 1260 1000 630 | 500 378 | 50 |
| ORATAPE® HT 95 | Developed for decorative glass or mirror design elements, to achieve a translucent etched glass appearance. Great for shop windows, room dividers and glass doors. | 18 N/25 mm (on glass) 16 N/25 mm (on acrylic glass) | > +8° C | 7 years | 1260 | | 50 |
| ORATAPE® HT 95, MT 95, MT 52, MT 72 | Long-term indoor and outdoor decorative design; developed for long-term decorative sparkling effects on glass and glass like shop windows and doors. | 16 N/25 mm | > +8° C | 7 years | 1260 1000 630 | 500 378 | 50 |
| n/a | Outdoor and indoor use. For full colour wrapping, or single colour decals. | 18 N/25 mm | > +15° C | Black/white: 10 years Coloured: 8 years Metallic: 4 years selected colours*: 2 years | 1520 | | 25 50 |
| n/a | Outdoor and indoor use. For full colour applications. This material comes with a shade shifter effect, meaning that the colour will change depending on viewing angle. | 18 N/25 mm | > +15° C | 2 years | 1520 | | 25 50 |
| n/a | Outdoor and indoor use. For full colour applications. This material has a unique glitter effect. | 18 N/25 mm | > +15° C | 2 years | 1520 | | 25 50 |
| n/a | Outdoor and indoor use. To be used as a tuning film for design details. Comes in seven exciting textures and a range of colours. | 22 N/25 mm | > +15° C | Black/white/coloured: 4 years | 1520 | | 10 25 50 |
| ORATAPE® LT 95, MT 95 | Outdoor and indoor use. Printing film for decorative labels, name- and technical plates, decorations and symbols. | 12 N/25 mm | > +8° C | 2 years Gold (G): 1 year | 1260 1000 | | 50 + available in sheets 700 x 500 mm, 700 x 1000 mm |
| ORATAPE® MT 95 | Outdoor and indoor use, as well as doming. Printing film for decorative labels, name- and technical plates, decorations and symbols. | 25 N/25 mm | > +8° C | 2 years | 1260 1000 | | 50 + available in sheets 700 x 500 mm, 700 x 1000 mm |
| ORATAPE® MT 95 | Indoor use. Typically unprinted markings for danger spots and decorative elements that are visible at night. | 18 N/25 mm | > +8° C | 5 years | 1260 1000 | | 50 |
| n/a | Outdoor and indoor. | 18 N/25 mm | > +8° C | White: 10 years Transparent: 8 years | 1520 1370 1050 | 760 (white only: 914) | 50 100 |
| ORATAPE® LT 95, MT 95 | Outdoor and indoor use. Digital printing film for decorative labels, name- and technical plates, decorations and symbols. | 12 N/25 mm | > +8° C | 2 years Gold (G): 1 year | 1370 | | 50 |
| | Digital printing glass decor film, for decorative design of shop windows and glass doors. | 18 N/25 mm | > +8° C | 7 years | 1260 1000 636 | 500 378 | 50 |
| ORATAPE® MT 95 | Outdoor and indoor use, as well as doming. Digital printing film for decorative labels, name- and technical plates, decorations and symbols. | 25 N/25 mm | > +8° C | 2 years | 1370 | | 50 |
| ORATAPE® HT 95, LT 52, LT 95, MT 52, MT 72, MT 80P, MT 95 | Outdoor and indoor use. For digitally printed marking signs for danger spots and decorative elements that are visible at night. | 18 N/25 mm | > +8° C | 5 years | 1520 1370 | | 10 50 |
| n/a | For application as surface guard films to protect surfaces against mechanical influences. | 22 N/25 mm | > +10° C | 7 years | 280: 1260, 1520 280F: 1520 | | 25 50 |
| n/a | | 18 N/25 mm | > +10° C | 7 years | 283: 1260, 1520 283F: 1520 | | 25 50 |

¹ Copper, Orient brown metallic, Bronze, Pyrite, Graphite metallic, Red gold L metallic and Nacre

** Brilliant blue L, copper, gold, metallic, bronze, pale gold, pyrite, redgold L, foliage green metallic, steppe green metallic

| Area of use | Minimum appl. Temp. | Widths (mm) | Lengths (m) |
|--|---------------------|-------------|-------------|
| Reflective material for life rafts, personal flotation devices and spray-wear. | > 15° C | 50 | 50 |
| Flexible reflective marine tape for inflatable devices, inflatable personal flotation devices and immersion suits. | > 15° C | 50 | 50 |
| Coloured reflective film visible at distances of more than 1 km. For application onto rigid surfaces, e.g. bouys or boats. | > 15° C | 775 | 45,7 |

Marine applications
Engineered to Perform Better™



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