

## Description

Reflexite® FD 1403 is a tough weather and solvent resistant product designed for rugged outdoor maritime use. It is compliant with U.S. Department of Transportation specification USCG 46 CFR, section 164.018 and International Maritime Organisation (IMO) resolution A.658(16). The approval is for Type I and Type II. For application to rigid and non-rigid maritime substrates, i.e. life rafts, life buoys, life vests and life boats.

## Product Construction

Reflexite® FD 1403 is composed of cube corner (microprism) retroreflective elements integrally bonded to a flexible, smooth-surfaced tough and weather resistant UV stabilised polymeric film. The prism surfaces are coated with a vacuum deposition of aluminium to provide a mirror surface to the prism facets. The resulting film is not more than 0,02 cm thick, and comes with an aggressive pressure sensitive adhesive or a textile backing.

## Product Approval

IMO resolution A.658(16).

## Film Logo Pattern

The material carries a permanent shipwheel marking for easy recognition of the approved quality of Reflexite® FD 1403.



## Colour

Reflexite® FD 1403 is available in silver (retroreflection in white). The colour shall be located in the area defined by the chromaticity coordinates provided in Table 1, when measured in accordance with CIE No. 15 and illuminated with the CIE standard illuminant D<sub>65</sub> using 45° / 0° or 0° / 45° geometry.

## Retroreflectivity

When illuminated with CIE illuminate A and measured with provisions of CIE No. 54 the coefficient of retroreflection (RA) of Reflexite® FD 1403 shall not measure less than the values shown in Table 2.

## Adhesive

Reflexite® FD 1403 can be supplied with a pressure sensitive adhesive. The adhesive is protected by a release liner which shall be removed by peeling, without soaking in water or solvents.

## Application Instructions

Please contact ORAFOL® for full instructions.

## Shelf Life

The product must be used within one year from the shipment date. All rolls including partially used rolls should be stored in original packaging, tightly wound. Store in a clean and dry area, away from direct sunlight. Store at 20° C and 50% relative humidity.

**Table 1**  
**Colour Specification Limits (Daytime)**

Colour	Chromaticity Coordinates*							
	1		2		3		4	
	x	y	x	y	x	y	x	y
Silver	0,300	0,270	0,385	0,355	0,345	0,395	0,260	0,310

\*) The four pairs of chromaticity coordinates determine the acceptable chromaticity when measured with standard illuminant D<sub>65</sub> using a Hunter LabScan spectrophotometer.

**Table 2**  
**Retroreflectivity**

Observation Angle	Entrance Angle ( $\beta_1, \beta_2=0$ )		
	5°	30°	45°
0,10°	1000	575	150
0,20°	700	400	100
0,50°	160	75	50
1,00°	25	15	10

All values have units of cd/lux/m<sup>2</sup>.

**IMPORTANT NOTICE**

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