

# ORACAL 451 Banner Cal

07/16

## Description

Highly flexible special PVC film with silk-matt surface.

## Release paper

Silicone coated paper on one side, 137 g/m<sup>2</sup>, which provides excellent waste-stripping properties. For white vinyl a light blue silicone paper is used to form a stronger contrast to lettering.

## Adhesive

Solvent polyacrylate, permanent

## Area of use

Specially developed for short- and medium-term lettering and decoration on tarpaulins, transparencies and other flexible plastic surfaces. To ensure a stress-free adhesion, wet application is generally recommended. Substrates should be cleaned with spirit or isopropanol, prior to adhesion. Pay attention to complete drying. Additionally suitable for thermal transfer printing (with resin ribbons).

## Technical data

<b>Thickness*</b> (without protective paper and adhesive)	80 micron
<b>Dimensional stability</b> (FINAT TM 14)	adhered to steel, no measurable shrinkage in cross direction, in length 0.4 mm max.
<b>Temperature resistance</b>	adhered to aluminium, -20°C to +65°C, no variation
<b>Seawater resistance</b>	adhered to aluminium, after 100h/23°C no variation
<b>Resistance to solvents and chemicals</b>	at room temperature, 72h after adhesion to aluminium, short-term resistant to most oils and greases, fuels, aliphatic solvents, weak acids, salts and alkalis
<b>Adhesive power*</b> (FINAT TM 1, after 24h, stainless steel)	14 N/25 mm
<b>Tensile strength</b> (DIN EN ISO 527)	
along	min. 15 MPa
across	min. 15 MPa
<b>Elongation at break</b> (DIN EN ISO 527)	
along	min. 120%
across	min. 150%
<b>Shelf life**</b>	2 years
<b>Application temperature</b>	min. +8°C
<b>Service life by specialist application</b> under vertical outdoor exposure (normal climate of Central Europe)	3 years

\* average      \*\* in original packaging, at 20°C and 50% relative humidity

## Attention:

Due to the wide variety of tarpaulins existing in the market own tests before application are absolutely necessary. Generally recommended are tarpaulins with a surface lacquer finish as plasticiser barrier.

The statements in this information sheet are based upon our knowledge and practical experience. This data is intended only as a source of information and is given without guarantee and does not constitute a warranty. Due to the wide variety of possible uses and applications customers should independently determine the suitability of this material for their specific purpose, prior to use.



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