

LAMINATE TECHNICAL DATA SHEET

1. PRODUCT CLASS

Micro Top laminates for coating and wrapping.

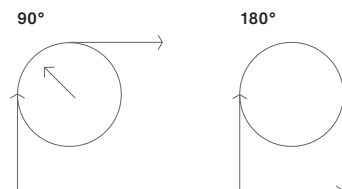
2. DESCRIPTION

Micro Top is a family of very flexible and ultra-thin laminates suitable for coating surfaces and profiles. The entire range, made by laminating impregnated decorative paper with different types of substrates, offers excellent solutions for all kinds of applications. If the substrate is a vegetable parchment we will have Micro Top X, Micro Top XS and Micro Top XSM. Using a nonwoven fabric, on the other hand, we will have Micro Top XST and Micro Top XSE. The decorative paper can be impregnated with different types of resins depending on the final destination of the product. Micro Top laminates are made to cover curved surfaces with radius up to 1.5 mm.

3. PROPERTIES

- a) High flexibility
- b) Melamine surface coating for enhanced physical and chemical resistance.
- c) Possibility to reproduce all the decors, with initial grammage between 60 e 90 gr/sqm, with all the finishing of the melamine-laminated chipboard.
- d) Applicability with all kinds of plants (prior testing is recommended).

PRODUCT	Radius (mm)	
	90°	180°
Micro Top X	≥ 6	≥ 8
Micro Top XS	≥ 3	≥ 3,5
Micro Top XSM	≥ 2	≥ 2,5
Micro Top XSE	≥ 2	≥ 2,5
Micro Top XST	≥ 1,5	≥ 2



Bending radius values shown in the table are valid when working at a maximum speed of 20 lm/min and using polyurethane (PUR) glue.

4. RECOMMENDATIONS

- a) Some finishes, such as but not limited to Velvet and Peach, are susceptible to polishing if subjected to friction and rubbing. An adequate check as on whether these finishing are suitable for the intended use is highly recommended.
- b) The low thickness of Micro Tops prevents the use of some very deep finishes such as Fusion Fun and Brushed Wood.
- c) The use of decors with a higher grammage significantly worsens the flexibility performance of the laminate, which may not meet the limit values given in the table above. For this reason, it is recommended to use decors that have a maximum grammage of 90 g/sqm.
- d) **The product is not waterproof** so it must be stored in places that are not in direct and constant contact with moisture superior to 50%; the same applies to laminate-coated items both while they are in storage warehouses and in places where they are installed..
- e) The laminate and the substrate must not have marked differences in temperature and humidity; this condition favors the 'filming' of the glue and compromises the effectiveness of gluing.
- f) PUR glues provide excellent adhesion characteristics between laminate and substrate and increased resistance of the bonding to humid environments. For other types (polyolefin, urea, vinyl, ... etc), **similar guarantees cannot be given**.
- g) Manufactured products coated with Micro Top laminates should not be stored in environments with relative humidity above 50%. Typical examples of incorrect storage are: open warehouses (or even canopies), construction sites, homes under construction... etc.
- h) Micro Top and Cover Lac laminates cannot be used to cover furniture elements that may come into contact with humid environments during their lifetime. Typical examples are: windows, doors installed in wet rooms (cellars, porches... etc).
- i) Micro Top laminates are very technical products and to ensure proper application by users with various levels of experience it is necessary to use glues that have high moisture resistance such as polyurethane glues (PUR).

5. APPLICATIONS

- a) Micro Top laminates are ideal for coating various types of profiles and vertical surfaces. Micro Top X, Micro Top XS and Micro Top XSM are suitable for coating both flat MDF surfaces and doorframe jambs and moldings. Micro Top XSE and Micro Top XSM are more suitable for coating door jambs and door frame moldings. Their use for coating flat surfaces, such as door folders, requires very sophisticated glue coating equipment and a lot of experience in coating with CPL laminates that have different behavior from finishes and monolayers.
- b) The glue must be spread on the laminate, not on the substrate.
- c) Edging or coating lines that intend to use Micro Tops must be equipped with pressure rollers that act on all the various sections of the surface/profile not only on the upper flat face. The absence of these rollers can seriously affect the effectiveness of the bonding. Prior testing is recommended.
- d) All Micro Tops can be applied by standard bonding processes using polyurethane glue (PUR). However, testing in advance is recommended.

6. SIZES

Available roll width: 130, and 140 cm.

7. TECHNICAL CHARACTERISTICS

The technical characteristics are shown in the table below.

8. PACKAGING AND STORAGE

- a) Micro Top laminates are supplied in rolls. The core has a diameter of 152 mm. Shockproof packaging is used for all Micro Top rolls. The stability of the laminate is assured for twelve months, if stored in its original packaging and in proper environmental conditions. (temperature 10 - 25° C and relative humidity 50%).
- b) laminate rolls should be stored horizontally, vertical storage may generate wrinkles and/or cracks from the part resting on the ground.
- c) following partial use, the rolls of Micro Top or Cover Lac must be packed again in the original packaging and stored in a horizontal position.

9. NOTES

Information contained in this document are based on our current knowledge and experience. However, they cannot be considered exhaustive, but purely indicative. It is recommended to test the products at your premises in advance and to report any non-conformities before proceeding with the production. Neodecortech S.p.A. cannot be considered liable for any damage deriving from the use of the abovementioned product.

TEXTE MICRO TOP LAMINATES

PROPERTY	Test method	Property or attribute	Unit / Rating (max or min)	Values
DIMENSIONAL TOLERANCES				
Dimensional Tolerances	EN 438-2.5	Thickness tolerance	mm	0,2 ± 0,08
GENERAL PROPERTIES				
Resistance to surface wear	EN 438-2.10	Initial Point ⁽¹⁾	Revolutions	< 50
Resistance to dry heat (180°C)	EN 438-2.16	Appearance - Gloss Finish	Rating (min)	3
		Appearance - Other Finish	Rating (min)	4
Resistance to wet heat (100 °C)	EN 438-2.18	Appearance - Gloss Finish	Rating (min)	3
		Appearance - Other Finish	Rating (min)	4
Resistance to scratching	EN 15186, met. B	Appearance ⁽²⁾	Rating (min)	light colors and smooth finish B
			Rating (min)	dark colors and structured finish D
Dirt resistance	UNI 9300:2020	Appearance	Rating (min)	3
Resistance to staining	EN 438-2.26	Appearance - Group 1&2	Rating (min)	4
		Appearance - Group 3	Rating (min)	4
Light fastness (Xenon-arc)	EN 438-2.27	Contrast	Blue wool scale	6
Density	EN 1S01183	Density	g/cm ³	≥ 1,35

⁽¹⁾ For smooth finishes and some plain colors, performances may be higher than the values reported in the table.
For structured finishes with dark printed colors, performances may be lower than the values reported in the table.

⁽²⁾ For structured finishes with dark printed colors, performances may be lower than the values reported in the table.