

# Application of self-adhesive tapes for mirrors

## General

This instruction shall provide technical advice for the application of mirror mounting tapes VITOMOUNT 125 SS-70 and VITOMOUNT 125 SS-100. Should this advice be insufficient for the individual purpose, please ask VITO Irmen for further technical assistance.

## Surface cleaning and mounting guidelines

Grease, oil, and release agents prevent a proper bonding of pressure-sensitive adhesives. Therefore the back of the mirror as well as the wall must be thoroughly cleaned with a cleaning solvent like denatured alcohol before attaching the adhesive tape. Use a clean cloth or a pad of cellulose paper, soak it with alcohol, clean the surfaces and then immediately rub away any residue with a second clean and dry pad. Other cleaners may only be used if there are definitely no tensides (i.e., surfactants / surface-active agents) included. When working with flammable solvents, carefully observe the safety instructions printed on the container label. Aerate the room to allow the solvent to evaporate completely. Give some time for the surface to warm up to room temperature which should be between +18 °C and + 30 °C. For a good adhesion, the surface must be clean and dry. If moisture from the air condensates on a cold surface, the adhesive will not work. Silicon spray must not be used in rooms where you work with adhesive tapes. Never touch the adhesive surface. Use a roller to press the adhesive tape onto the mirror strongly and evenly, applying a pressure of at least 10 N/cm<sup>2</sup>. The required quantity of adhesive tape is indicated on the reverse page of this leaflet. One strip of adhesive tape may have a maximum length of 50 cm. If the spreadsheet requires a tape length larger than 50 cm, divide the strip into several segments of no more than 50 cm each.

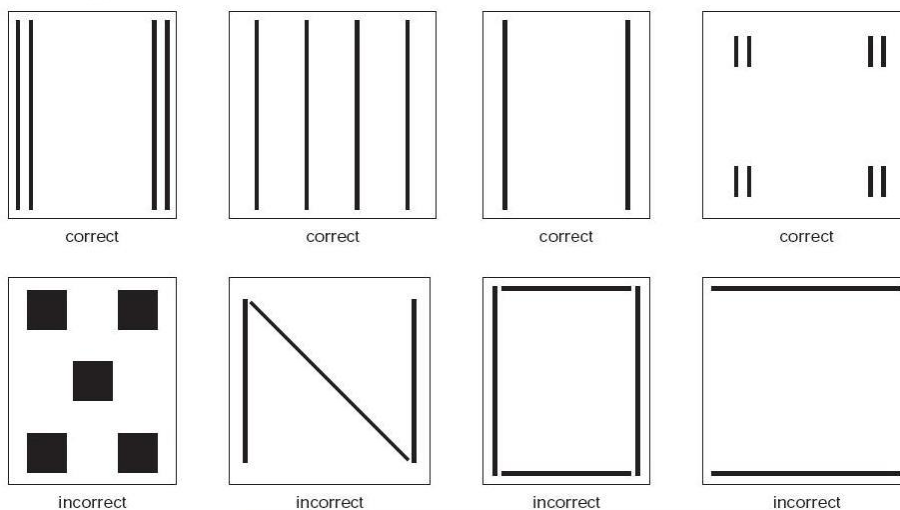
## Surface constitution

- Excellent adhesions will only be attained on plain, flat and even surfaces.
- Non-critical assembling partners are metals, glass, plain ceramic tiles, rigid PVC, polycarbonate and ABS.
- Critical assembling partners are polypropylene and polyethylene; powder varnish, rubber, plastics moistened with traces of lubricants (such as mould release agents), soft PVC, and silicones.
- Porous surfaces (such as concrete) or fibrous materials (such as wood) require a cover layer of a sealing compound prior to applying an adhesive tape.
- Adhesions on soft PVC will require a primer or a specially designed adhesive tape in order to diminish migration of plasticizers.
- Mirrors with a splinter protection film on their back will require prior tests and approval by VITO, otherwise no liability will be accepted.
- The surface of the counterpart (i.e., the wall ) must be almost as even as the mirror glass in order to allow the tape to thoroughly touch both surfaces.

## Please note:

- Outdoor applications under the influence of weathering conditions and indoor applications in rooms with elevated humidity resulting from spraying or condensing water are not permissible.
- Avoid designs in which the weight of the mirror puts perpendicular force onto the tape surface, i.e., mount mirrors vertically. If you intend to mount a mirror under a ceiling or under a pitched roof, adhesive tapes may only serve as an auxiliary mounting, but the weight of the mirror needs to be supported by a mechanical fixation.
- Allow 24 hours time between taping the mirror and fixing it to the wall.
- The adhesive tape should always run in vertical, but not in horizontal direction. Please refer to the following scheme.

## Taping scheme



# Determination of tape quantities for VITOMOUNT 125 SS-70 and VITOMOUNT 125 SS-100

Mirror thickness	2 mm		3 mm		4 mm		5 mm		6 mm	
Tape width	19 mm	25 mm	19 mm	25 mm	19 mm	25 mm	19 mm	25 mm	19 mm	25 mm
Mirror surface cm <sup>2</sup>	Tape length cm		Tape length cm		Tape length cm		Tape length cm		Tape length cm	
250	4	3	6	5	8	6	10	8	12	9
500	7	5	12	8	15	12	20	14	22	17
750	12	8	17	13	22	17	28	21	33	25
1.000	15	12	22	17	30	22	37	28	44	34
1.250	19	14	27	21	37	28	45	35	55	42
1.500	22	17	33	25	44	34	55	41	65	50
1.750	25	20	38	29	50	40	63	48	76	58
2.000	29	22	44	34	58	44	72	55	87	66
2.250	33	25	49	38	65	50	81	63	98	75
2.500	37	27	55	41	72	55	90	68	108	82
3.000	44	34	65	50	87	66	108	83	130	99
3.500	50	40	76	58	101	77	126	96	151	116
4.000	58	44	87	66	116	88	144	110	173	132
4.500	65	49	98	75	130	99	162	123	194	148
5.000	72	55	108	83	144	109	181	138	216	164
6.000	87	66	130	99	173	131	216	165	259	197
7.000	101	77	151	116	202	153	252	193	302	230
8.000	116	88	173	132	230	175	288	220	345	263
9.000	130	99	194	149	259	197	323	248	389	295
10.000	144	110	216	165	288	220	360	275	432	330
12.000	173	132	259	198	345	264	432	333	518	396
14.000	202	154	302	231	403	307	503	385	604	462
16.000	230	176	345	264	460	350	575	440	690	525
18.000	259	198	389	297	518	394	647	495	776	591
20.000	288	220	432	330	575	440	719	550	863	660
25.000	360	275	540	413	719	548	899	688	1.078	822
30.000	432	330	647	495	863	660	1.078	825	1.295	990
35.000	503	385	755	578	1.006	764	1.258	963	1.510	1.150
40.000	575	440	863	660	1.150	880	1.440	1.100	1.725	1.320

## Check for suitability

All details and technical information mentioned above are based on laboratory examinations or on details provided by our material suppliers. Those details and information have been determined to the best of our knowledge, however, a warranty of completeness and correctness is excluded. Prior to using the product it is necessary to check its suitability for the intended purpose of application. Questions relating to guarantee or product liability are governed by our general terms of business unless legal regulations provide other instructions.

12/2016