SE 003

Self-adhesive felts | Handling instructions



Handling temperature	The most favourable handling temperature for adhesive tape is between +18 $^{\circ}$ C and +25 $^{\circ}$ C. The initial adhesive strength of the bond is reduced if the adhesive joint is created at low temperatures.
Surfaces	The surfaces of the joined parts must be dry and clean. Remove dust, grease, oil and separating agents, for example. The formation of condensation on surfaces to be stuck (e.g. as a result of the movement of cold objects into warmer rooms) is to be avoided. Loose coatings or coating layers must be removed or strengthened.
Cleaning	Only use clean cloths and material-compatible solvents such as petrols, alcohols, esters or ketones to clean surfaces.
General handling	Parts are to be removed carefully, without bending or folding the strips. Do not pull on the felt, as the felt can tear within the composite and can become separated from the adhesive. Removal of the strips from the backing paper should be carried out over a sharp edge and, if possible, without touching the adhesive surface.
High pressure helps to achieve full- surface contact	Pressure (around 15 - 20 N/cm ²) is ideally applied using a pressing roller or flat press. Hard ("dry") adhesive tapes require stronger pressing than soft ("wet") tapes. The full adhesive strength is only achieved after a minimum of 24 hours in the case of hard adhesives.
Avoiding unnecessary stresses	Joints are to be designed in such a way that no lever effects (splitting stress) occur. It must be possible to distribute shear and tensile stresses across the entire adhesive surface. Permanent stresses impair permanently elastic joints (e.g. labels for curved surfaces must be pre-formed). Stresses at the ends of the joined parts must also be avoided.
Surface finish	Good adhesive joints are achieved on smooth surfaces; rough surfaces require thicker adhesive tapes or stronger pressing. Unproblematic joining partners include: metals, painted surfaces, high-energy plastics (e.g. ABS, polycarbonate, hard PVC, smooth wood, stone and glass). Care should be exercised with low-energy or plasticised plastics. In this case, the plasticiser can alter the adhesive layer, which can impair the strength of the adhesive bond. For most applications, double-sided adhesive tapes are available; however, appropriate tests should first be carried out for sensitive surfaces (e.g. polyethylene, polypropylene, plastics with lubricant additives, powder coatings, rubber).
Storage and durability	 The adhesive tapes are to be stored at room temperature (20 °C) and normal air humidity (50 - 70%). Avoid extreme sunlight (UV radiation). Rubber-containing adhesive tapes should not be stored for longer than 24 months after they are supplied. Dispersible adhesive tapes should not be stored for longer than 1 year after they are supplied and, if possible, should be wrapped in PE sheeting for storage. Solvent-containing adhesive tapes should be used within 6 months of supply.

Felt, naturally good!

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