

ALPATEC 5663/20

Character Flowable sealing agent and adhesive

Technical Data

Basis	Flowable one component silicone rubber vulcanising at room temperature through air humidity, solvent-free		
Colour	Black		
Density	1.10	g/cm ³	DIN 53479, 23°C
Viscosity	8.500	mPas	Brookfield HBTD, 23 +/- 2°C
Self levelling	105	mm	Diameter, 10ml on glass plate, 23°C
Skin formation	16	min	DIN 50 014 –23/50-2
Hardness shore A	15		DIN 53 505 *
Tensile strength	1.0	N/mm ²	DIN 53 504, S 3 A *
Elongation at break	350	%	DIN 53 504, S 3 A *
Tensile stress value	0.35	N/mm ²	100 % elongation, * DIN 53 504, S 3 A
Temperature stability	-60 to +200	°C	
Crosslinking system	Acetoxy		

* Vulcanisate, measured after 14 days of storage under standard climate DIN 50 014 – 23/50-2

Storability

If stored cool and dry in tightly closed original containers, the product will hold for 12 months.

The above given values are product describing data. Please consult the 'delivery specification' for binding product specifications. Further data about product properties, toxicological, ecological data as well as data relevant to safety can be found in the safety data sheet.

Properties

- Flowable, high self-levelling characteristics
- Quick tack-free skin formation
- Excellent latex release
- Good temperature stability from – 60 °C to + 200 °C
- Excellent weatherability, remains flexible

Application Technique

Application Fields

Adheres on many substrates such as aluminium, non-ferrous metals, steel, glass fabric, ceramics, thermosetting and thermoplastics, wood and other materials.

Suitable for sealings, elastic bondings and insulations in the industrial field.

ALPATEC 5663/20 has special high self-levelling properties which makes it ideally suited for applications like flexible sealing and bonding of glass panes to metals like stainless steel. The product can also be used for coating conveyor belts which require an excellent release and chemical resistance to latex.

Processing

ALPATEC 5663/20 is ready for use and can be directly processed from the original container without mixing. The substrate must be dry and free from dust and grease since otherwise the adhesion may be reduced. In some cases a pretreatment of the surface is required. Please check this in each individual case. For degreasing non-porous surfaces, e.g. metal and glass, KÖRASOLV GL is suited (use undyed crepe paper or alike).

Be careful when cleaning plastics which tend to forming stress cracks, e.g. polycarbonate, polyacrylate. Please check this individually.

Vulcanisation (Curing)

The curing process begins with the skin formation on the exposed surface of the sealant and progresses inwards through the material. At 23° C and 50 % relative humidity, ALPATEC 5663/20 will form a surface skin, which is tack-free to the touch within 20 min. Within 24 hours a section of at least 2 mm is fully cured. Since curing times progressively increase with the thickness, the sealant depth should be limited to 10 mm. Higher temperatures and humidity will accelerate the curing process. Do not cure the sealant at or above 70° C as bubbles may form in the sealant that may affect the overall physical properties and adhesion.

Safety

Please observe our EC safety data sheets and the safety remarks on our container labels when handling our products. The dangerous goods regulations and the accident prevention regulations of the professional associations must be particularly observed. Keep the EC safety data sheet of the applied product at hand since it provides you with useful instructions for the safe use and disposal of the product as well as for actions to be taken in case of accidents.

Delivery Units

ALPATEC 5663/20 is available upon demand.

We reserve the right to modify the product and technical leaflet.

Our department for applied technique is always at your service for further information and advice.

Our technical advice and recommendations given verbally, in writing or by trials are believed to be correct. They are neither binding with regard to possible rights of third parties nor do they exempt you from your task of examining the suitability of our products for the intended use. We cannot accept any responsibility for application and processing methods which are beyond our control.

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