

Product Name

ELASTOSIL® C1200 A/B

Wacker RTV-2 Silicone Rubber

Product Description

Dispensable, addition-curing, two component silicone rubber that cures at room temperature.

- Low Viscosity
- Shore A Hardness (approx 25)
- Medium pot-life with rapid curing
- Excellent long-term stability of the mechanical properties of the cured rubber.
- Outstanding resistance to casting resins.

Typical Applications

C1200 has been specifically developed for the professional production of reusable vacuum bags, used in the production of composite parts. Due to its shear thinning behaviour it will be self levelling, yet not run off vertical surfaces. Due to this factor, it is especially good for brush-on moulding for the production of moulds for most casting materials. Its superior mechanical properties and ability to produce thin skins make it perfectly suitable for all moulds with large undercuts. C1200 may be processed using a manual or pneumatic gun directly onto the moulded surface. For larger amounts it may also be processed using a metering equipment and spray equipment.

Physical Properties

Product Data / Uncured

Components			A	B
Colour			Transparent	Blue
Density @ 23°C		[g/cm ³]	1.05	1.05
Viscosity @ 23°C, after stirring	Brookfield	[mPa s]	20 000	20 000

Product Data / Cured – After 24 hours @ 23°C

Density at 23°C, in water	ISO 2781	[g/cm ³]	1.05
Hardness, Shore A	ISO 867		25
Tensile Strength	ISO 37	[N/mm ²]	5.0
Elongation at Break	ISO 37	[%]	500
Tear Strength	ASTM D 624, B	[N/mm ²]	25
Linear Shrinkage		[%]	<0.1

Handling Properties

Product Data / Catalysed

Mixing Ratio	A : B	[parts by weight]	1 : 1
Colour			Trans Blue
Viscosity @ 23°C	Brookfield	[mPa s]	20 000
Pot-life		Mins	20
Demould Time		Mins	60

Processing

Important – The platinum catalyst is contained in Component A.

Caution – Only Components A and B with the same batch number may be processed together.

When producing vacuum bags, it is recommended to post-cure the bag for 2-3 hours at the operating temperature, 220°C max.

Storage

Elastosil® C1200 has a shelf life of at least 12 months in the sealed container between 5°C and 30°C. If the material is kept beyond 12 months it is not necessarily unusable, but a test should be performed on the product to check suitability to the application.

Notes

Further information on processing silicone can be found in the Wacker leaflet “Processing RTV-2 Silicone Rubbers”. Check with your Barnes Representative for a copy of this leaflet.

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Disclaimer

The data presented in this leaflet are in accordance with the present state of our knowledge, and does not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this leaflet should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. Recommendations for use do not constitute a warranty, either expressed or implied, of the fitness or suitability of the product for a particular purpose.