

NEVOSIL® MSC 1221

RTV-2 Type Silicone Rubber

Characteristics

Pourable, condensation-curing, two-component silicone rubber which vulcanizes at room temperature.

Properties

- ✓ Medium hardness shore
- ✓ High elongation and flexibility
- ✓ Chemical resistance to polyester resins

Application

Due to its high mechanical properties and chemical resistance to polyester resins, NEVOSIL® MSC 1221, can be particularly used for the processing of polyester resins and the production of models with extensive undercuts. NEVOSIL® MSC 1221 is also a suitable product for pad printing applications.

Technical Data

Product Data (uncured)	NEVOSIL® MSC 1221	ULTRA CATALYST 7320	ULTRA CATALYST 7325	Test Method
Appearance	White, liquid	Yellowish, liquid	Yellowish, liquid	
Viscosity (23°C) (cP)	~25.000	<30	<30	ISO 3219
Density (23°C) (g/ml)	~1,40	~0,96	~0,96	ISO 2781
Product Data (catalyzed, @ 23°C)				
Mixing ratio (wt)		100/5	100/5	
Pot life (min)		~15	~10	
Curing time (h)		~3	~2	
Product Data (cured, after 4 days, @ 23°C and 50% relative humidity)				
Hardness (Shore A)		~20	~25	ISO 868
Tensile strength (N/mm ²)		~2,0	~1,8	ISO 37
Elongation at break (%)		~600	~800	ISO 37
Tear strength (N/mm)		~18	~18	ASTM D 624
Linear shrinkage (%)		0,5	0,5	After 7 days

* These figures are only intended as a guide and should not be used in preparing specifications.

The data presented in this leaflet are in accordance with the present state of our knowledge, but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants with the scope of technical progress or new developments. The recommendations made in this leaflet should be checked by preliminary trials.

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Processing

- ✓ To obtain the best results, the amount of silicone rubber component and catalyst must be metered accurately in order to be mixed at the right ratio. Otherwise, there should be changes in the mechanical properties, pot life or curing time of the product.
- ✓ Make sure that the two components are homogenously mixed.
- ✓ To avoid a local excess concentration, it is necessary to scrape the vessel wall with a spatula at short intervals.
- ✓ The mixing silicone has to be degassed under vacuum pressure in order to achieve a completely bubble free vulcanized material.
- ✓ The pot life of the mixture starts immediately after the mixing process begins.
- ✓ Curing can take place at the temperature between 23-70°C (at temperatures above 80°C, the crosslinking reaction is reversed).
- ✓ Cured rubber will be ready to use after completely removal of the alcohol from the medium (withdrawal of the alcohol can cause a very small shrinkage on the volume of rubber).
- ✓ Before working with higher volumes, laboratory experiments should be carried out to determine the working conditions, and etc.

Storage / Shelf Life

NEVOSIL® MSC 1221 and ULTRA CATALYST series have a shelf life up to 12 months if stored in the sealed original containers between 5–35°C. If the materials are kept beyond the shelf life recommended on the product label, they are not necessarily unusable, but a quality control should be performed on the properties relevant to the application. The containers must be protected against sunlight and frost.

Packaging

1, 5, 10, 25 and 200 kgs of metal drums.

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Ultrakim Kimya San. ve Tic. A.S.
Haramidere Sanayi Sitesi M Blok
No: 322–324 Avcilar, 34840, Istanbul/Turkey
Tel: + 90 212 422 05 14
Fax: + 90 212 422 05 15
Email: info@ultrakim.com

www.ultrakim.com