

Product Information

Vinnolit

Leadership in PVC

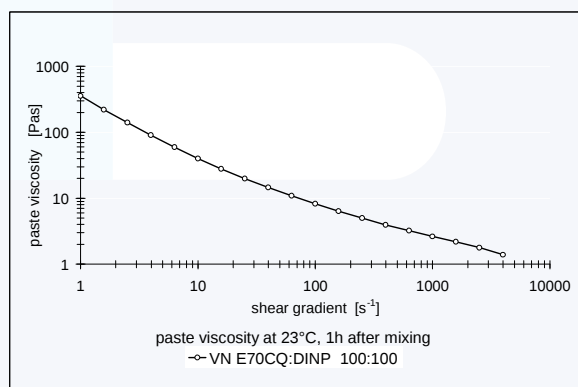
®Vinnolit E 70 CQ

PVC for paste application

Brief Description

®Vinnolit E 70 CQ is a fine-particle, paste-making emulsion homopolymer giving very high-viscosity plastisols with a good shelf life. The lower plasticizer limit for pastes made from Vinnolit E 70 CQ is approx. 80 parts DINP based on 100 parts PVC. All pastes above this limit show a highly pseudoplastic rheology (see diagram).

Accordingly, Vinnolit E 70 CQ - apart from its main application of fabric base coating - is used as a blend component to raise the yield point or to reduce the dilatancy of pastes. This applies for instance when laminating fabrics directly into wet foam coats, in automotive underbody sealants or to prevent the formation of blobs during spread coating.



Raw material Properties	Typical Value*	Unit	Test method	
			DIN EN ISO	ISO
K-value	approx. 70	-	1628-2	1628-2
Reduced viscosity	approx. 124	ml/g	1628-2	1628-2
Apparent bulk density	approx. 0.42	g/ml	60	60
Particle size distribution: sieve retention retained on 0.063 mm screen	< 2	%	1624	1624
Volatile matter	< 0.5	%	-	1269
Emulsifier content	medium	-	-	-

* The values given above are **typical** test results which should be used as a guide only. They do not form the whole or part of a specification or guarantee.

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Product Information

Processing and Application

Pastes based on Vinnolit E 70 CQ can be applied by direct or transfer coating using doctor knife or rotary screen and can be sprayed onto the undersides of vehicles as an automotive underbody sealant.

Flexible paste formulations may be spread directly onto fabrics. In this respect not only the high yield point but also the excellent plasticizer retention of Vinnolit E 70 CQ are particularly useful.

In combination with grades having a lower viscosity, such as Vinnolit E 72 CF or Vinnolit E 68 CF, it is possible to obtain pseudoplastic pastes of any desired viscosity. Replacing 10–15 % of the PVC by Vinnolit E 70 CQ may reduce the incidence of blobbing during spread coating.

Since the viscosity and yield point of pastes made from Vinnolit E 70 CQ may be considerably reduced when using certain stabilizers or kickers, particular attention should be paid to the selection of these additives. For base coats the high thermo-stability of Vinnolit E 70 CQ makes it possible to process without stabilizers or alternatively to use only epoxy-dized soya bean oils.

Vinnolit E 70 CQ is suitable for chemically blown foam with ZnO as kicker. When blended with other foam grades, the processing possibilities with respect to viscosity can be increased.

Packaging, Delivery and Storage

The product is supplied in 25-kg bags.

Vinnolit E 70 CQ should be stored dry and away from direct or indirect sources of heat. Please consult the safety data sheet for information about the safety precautions necessary for transport, storage, blending and processing.

General Information

Further processing information and recommendations can be obtained from our Technical Service department or our local representatives.

The data and recommendations contained in this product information represent the current state of our knowledge and serve as a guide only to our products and their potential applications. Therefore, no warranty of specific properties of the products mentioned here in nor of their suitability or fitness for a particular purpose is implied.

The information given 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 used. Patent or other proprietary rights of third parties must be observed. The quality of our products is warranted under the terms of our General Conditions of Sale.

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Vinnolit GmbH & Co. KG

Carl-Zeiss-Ring 25

D-85737 Ismaning

Tel.: +49 89 9 61 03-0

Fax: +49 89 9 61 03-103

www.vinnolit.com