Laromer® PO 43 F

General	Laromer® PO 43 F is a modified polyether acrylate for formulation of radiation curable printing inks and coatings for wood, metal and plastic applications
Key features & benefits	good chemical resistance
	all-round resin
	medium reactivity and elasticity
Chemical nature	modified polyether acrylate

Properties

Appearance low-to medium-viscous liquid

Typical characteristics
(should not be interpreted as specifications)

viscosity at 23°C	300 mPa·s
acid value	≤ 5 mg KOH/g solids
iodine color number	≤ 10
density at 20°C	1.1 g/mL
flash point	> 100°C

Application

Laromer® PO 43 F shows a very balanced property profile and can be used as a sole binder in UV-curable formulations for a variety of applications.

Laromer® PO 43 F can be further diluted with low-volatile monomers such as monofunctional, difunctional or trifunctional acrylates. These are incorporated into the film during curing and thus influence its properties.

To increase the reactivity in thin films, a tertiary amine such as methyl diethanol amine or an amine synergist such as Laromer® PO 8956 M can be added to formulations based on Laromer® PO 43 F. Care must be taken to ensure that the amine does not react with the substrate, particularly pale-colored ones.

A suitable photoinitiator must be used to photocure Laromer® PO 43 F The photoinitiator types include, for example, α-hydroxy ketone, benzophenone, acyl phosphine oxide, and blends thereof, for typical coating applications. The amount of photoinitiator varies between 2%~5% based on Laromer® PO 43 F as delivered. Acyl phosphine oxide types (MAPO, MAPO-Liquid and BAPO) of photoinitiators are recommended for film thicknesses of 50 g/cm² to ensure through curing.

Storage

Product ought to be kept within sealed unopened containers. Containers should be stored below 35 °C and away from sunlight.

For further detailed application information please contact our Technical Support Department.

Safety
When handling this product, please comply with the advice and information given in the safety data sheet and observe protective and workplace hygiene measures adequate for handling chemicals.

Note
The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights, etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. The agreed contractual quality of the product results exclusively from the statements made in the product specification. It is the responsibility of the recipient of our product to ensure that any proprietary rights and existing laws and legislation are observed.

BASF East Asia Regional Headquarters Ltd.
45th Floor, Jardine House, No. 1 Connaught Place, Central, Hong Kong