

OSAKRYL[®] AP 40

Water dispersion of
acrylic copolymer

Technical Data Sheet

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Previous editions of this document have lost its validity

PRODUCT CHARAKTERISTICS

Osakryl[®] AP 40 is a water dispersion of acrylic copolymer produced in the presence of emulsifying system composed of ionic and non-ionic surface active agents. Product is designed for the formulation of deep penetrating primers and wood stains or impregnations.

GENERAL PROPERTIES

- APEO free
- solvent free
- very good penetration into the porous substrates, such as especially cement, cement-limestone, wood ect.
- very good substrate binding efficiency
- water and alkali resistance

BASIC PARAMETERS

Parameters	Units	Values	Test Methods
pH	-	7,0÷8,0	PN-EN 1245
solids content	%	29±1	PN-EN 827
viscosity by Brookfield LVDV ¹⁾	mPa·s	5÷50	PA 07-08
MFFT (minimal film formation temperature)	°C	<0	PN-90/C-89415
Tg (glass transition)	°C	ca. +20	differential scanning calorimetry (DSC)
mean particle size	nm	40÷50	photon correlation spectroscopy (PCS)

¹⁾ rotors per minute: 60; rotor No. 1; temperature: 23°C

APPLICATION

After evaporation of water in the temperature above 0°C Osakryl[®] AP 40 forms a transparent film. Product is dilutive with water and well miscible with inorganic fillers and pigments. In our experience Osakryl[®] AP 40 can be used with majority available raw materials designed for water-based products formulation. In final products for in-can preservation use formaldehyde free biocides and free of formaldehyde donors in amount recommended by biocide producer.

PACKAGE AND TRANSPORTATION

Acid resistant and heat insulated road tankers, IBC containers or plastic barrels with polyethylene bags inside. Package and transportation are not subject to regulations for hazardous materials transportation (ADR, RID). The other packages can also be used if previously agreed between the producer and a customer. Package must not deteriorate the product.

STORAGE

Store at temperature range from 5 to 35°C. Drums or IBC containers should be stored in one layer. If stored in these conditions the product does not change its properties in the period of six (6) months from the date of production.

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SPECIALTIES

This document is of an informative character. The information given herein is based on the present state of our knowledge and experience. It makes neither product properties nor qualitative parameters guarantee and cannot be used as a basis of any claims. The information provided cannot be used for any mixtures with any other substances. Product should be transported, stored and used in accordance with valid regulations and good occupational hygiene practice.

Making use of the information as well as product application is beyond the producer control and determination of the safe conditions of use is the sole responsibility of a customer.