

OSAKRYL[®] OSA 23NM

Water dispersion of
styrene-acrylic copolymer

Technical Data Sheet

Pilot batches
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Approved by: Product Manager – Dominika Słotwińska

Previous editions of this document have lost their validity

CHARACTERISTICS

Osakryl[®] OSA 23NM is a water dispersion of styrene-acrylic copolymer produced in the presence of emulsifying system composed of ionic and non-ionic surface active agents. Product is recommended as binder in primers, plasters and decorative - protective paints formulation for interior and exterior use, dedicated to low odor products.

GENERAL PROPERTIES

- APEO free
- solvent free
- ammonia free
- very good compatibility with pigments and colorants

In coatings exhibit very good adhesion to various porous materials, especially cement, cement-limestone, etc. porous substrates as well as improved antiblocking properties. Used as a binder in coatings promotes very good wet scrubbing resistance, low water uptake and good alkali resistance.

BASIC PARAMETERS

Parameters	Units	Values	Test methods
pH	-	7,5÷8,5	PN-EN 1245
solids content	%	49±1	PN-EN 827
viscosity by Brookfield RVT ¹⁾	mPa·s	2000÷6000	PN-ISO 2555
MFFT (minimal film forming temperature)	°C	ca. +2	PN-90/C-89415
Tg (glass transition)	°C	ca. +6	differential scanning calorimetry (DSC)
mean particle size	nm	ca. 140	photon correlation spectroscopy (PCS)

¹⁾ rotors per minute: 20; rotor nr 4; temperature: 23°C; after 5 minutes

APPLICATION

After evaporation of water in the temperature above +2°C Osakryl[®] OSA 23NM forms a transparent film. Product is dilutive with water and well miscible with inorganic fillers and pigments. In our experience Osakryl[®] OSA 23NM can be used with majority available raw materials designed for water-based products formulation.

PACKAGE AND TRANSPORTATION

Acid resistant and heat insulated road tankers, IBC plastic containers or plastic drums 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 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.

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.