

Dispex[®] CX 4304

General

Dispex[®] CX 4304 is a resin developed for water-borne paints, inks, adhesives and ceramics, where resolubility of the system is of prime importance.

Typical examples for such temporary systems are

- Artist paints
- Adhesives for model construction
- Water-removable paints and inks
- Temporary binder for ceramic printing (before firing)

Chemical nature

Sodium salt of a carboxylated acrylic copolymer in water

Properties

Physical form

Clear to hazy, slightly yellow liquid

Technical data

(not supply specification)

Dry weight	BASF method	31.0 – 33.0 %
pH value	BASF method (25 °C, 100 % (m))	7.5 – 8.5
Viscosity, dynamic	BASF method (20 °C)	500 – 2,500 mPa.s
Glass transition temperature T_g		~ 10 °C
Acid value	(as 100 %)	~ 77 mg KOH/g

Application

Dispex® CX 4304 is a resin developed for temporary water-borne paints, inks, adhesives and ceramics, where resolubility of the system is of prime importance.

As a sodium salt Dispex® CX 4304 is recommended for odor-free, water washable systems.

The outstanding combination of good water-resolubility of heat- or airdried systems and reasonable protection against natural humidity and perspiration is a result of the comparably low average molecular weight of the polymer chains in conjunction with their specific monomer composition.

However, Dispex® CX 4304 should not be used as a basis for any system, where long-term resistance is a prerequisite, unless over coated.

For pigmented systems it is recommended to grind the pigments directly into the base resins. Dispex® CX 4304 has proven to provide good pigment dispersant properties.

Recommended concentrations

Dispex® CX 4304 may be used as the only or as the main binder. As any component present in a formulation can have significant impact on the overall properties, compatibility and dosage level should always be checked in the actual formulation.

Storage

Subject to appropriate storage under the usual storage and temperature conditions, our product is durable for at least 24 months.

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Validity

This Technical Data Sheet is valid for all versions of the Dispex® CX 4304.

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.

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