SNAP® 2709

(FORMERLY E 20509)

ARCHITECTURAL COATINGS

ARKEMA COATING RESINS

Product Application details

SNAP® 2709 is a low MFFT acrylic emulsion with a morphology specifically designed to allow an excellent film formation. It is particularly adapted to the formulation of trim enamels for exterior and interior applications.
SNAP® 2709 is formulated without alkylphenolethoxylates or formaldehyde.
SNAP® 2709 has been developed to be used as binder for both interior and exterior trim enamels. Its specific & controlled structure ensures a stable minimum film formation temperature as well as a very good film formation with no coalescing agent even at low temperatures.
In terms of film properties, SNAP® 2709 allows to get a coating exhibiting a good compromise of flexibility and hardness and a very good block resistance. The final properties of the coating are achieved extremely rapidly (within 24 hours of drying) and are stable with time as no coalescing agent (VOC or non VOC) is used. SNAP® 2709 is a binder of choice for durable exterior coatings.

Performance Benefits

- Excellent blocking resistance (even at high temperatures)
- Excellent hardness development
- Excellent wet and dry adhesion (especially onto aged alkyds)
- Excellent fexibility
- Easy controlled rheology
- Good pigment compatibility

Polymer Type

- Acrylic Emulsion

Sales Specifications

Solid Content % (ISO 3251)	44 - 46
pH (ISO 976)	7.5 - 8.5
Viscosity at 23°C, mPa.s (Brookfield RVT , 20rpm) (ISO 2555)	500 max

Other Characteristics[1]

Stabilizing system	A / NI
Minimum Film Formation Temperature, °C (ISO 2115)	5
Density / Specific Gravity, g/ml (ISO 2811)	1.06
Average Particle size, nm (ISO 13321)	90 - 100

1 The data provided for these properties are typical values, intended only as guides, and should not be construed as sales specifications

Formulation Guidelines

RHEOLOGY
SNAP® 2709 is easy to formulate as its reactivity to thickeners is balanced and controlled. It is possible to achieve the desired rheological profile (more or less Newtonian) depending on the targeted application.
This controlled thickeners reactivity allows to optimise the levelling of SNAP® 2709-based paints and varnishes.
Rheology can be adjusted using associative thickeners such as HEUR thickeners : Polyurethane thickeners such as Coapur™ XS 22 (1), Coapur™ 830W (1), Coapur™ 2025 (1) which are efficient; Hydrophobically Modified PolyEther thickeners, e.g. Aquaflow® NHS 300 (2), Aquaflow® NMS 450 (2), are also suitable. HASE thickeners, such as Rheotech™ 2000 (1) may also be suitable for satin paints.
OTHER ADDITIVES
Defoamers such as Byk®-022 (3), Byk®-028 (3), Byk®-093 (3), FoamStar® ST 2438 (4) as well as FoamStar® ED 2522 (4) are suitable.
SNAP® 2709 formulations pH should be adjusted with ammonia : it is not recommended to formulate it with non-volatile amines or soda.
Notes: (1) Coatex, (2) Ashland Specialty Ingredients, (3) Byk, (4) BASF

Product Safety	Please refer to the corresponding Safety Data Sheet.
Storage & Handling	SNAP® 2709 should be stored indoors in the original, unopened and undamaged container, in a dry place at storage temperatures between 5°C and 30°C. Exposure to direct sunlight should be avoided. The product is protected to prevent any microbial deterioration during normal conditions of storage but care should be taken to avoid accidental contamination during subsequent handling and processing. In the above mentioned storage conditions the shelf life of the resin will be 6 months from the shipping date

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Arkema Coating Resins
420, rue d'Estienne d'Orves
92705 Colombes Cedex - France
arkema.com - **arkemacoatingresins.com**

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