

TECHNICAL DATA SHEET

ENCOR® 2793 (Formerly E21093)

Acrylic Emulsion

PRODUCT APPLICATION DETAILS

ENCOR® 2793 is a functionalized pure acrylics binder dedicated to multi-substrate primer and renovation paints. It is formulated without alkylphenolethoxylates and is formaldehyde releaser free.

ENCOR® 2793 has an excellent adhesion profile on wood, concrete, ceramic, plastics and many other substrates. It is outstanding for stain and tannin blocking. It even prevents the knots of the wood, such as pine, from bleeding and blistering.

ENCOR® 2793 is easy to formulate. This allows a broad range of application, such as multi-substrate primer, wall paints, wood lacquers, stain and tannin blocking primer or two coats renovation paints.

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (105°C)	42 - 44 %	ISO 3251
pH	8.5 - 9.5	ISO 976
Viscosity (Brookfield RVT , 20rpm) (23°C)	1000 max mPa.s	ISO 2555

OTHER CHARACTERISTICS¹

	CHARACTERISTICS	METHODS
Stabilizing system	A / NI	
Minimum film formation temperature	15 °C	ISO 2115
Density	1.04 g/ml	ISO 2811
Average particle size	100 nm	ISO 13321

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

MARKETS & APPLICATIONS

Coatings & Inks

- Architectural Coating
 - Exterior Wall
 - Interior Wall
 - Primers
 - Specialty Coatings
 - Stains
 - Trim
 - Other Architectural Coating
 - Architectural Wood
- Industrial Coating
 - Protective And Marine Coating

PERFORMANCE BENEFITS

- Outstanding stain-blocking (tannins, nicotine, household stains, humidity stains...)
- Excellent multi-substrates adhesion (wood, concrete, ceramic, plastics, copper, etc.)
- Effective as knot blocking / sealing primer or two coat systems
- Easy to formulate with conventional waterborne additives
- Good stain resistance / easy to clean and water resistance

FORMULATION GUIDELINES

COALESCENT

For an optimum stain-blocking performance, it is recommended to avoid additives that are too hydrophilic. Coalescents with low water solubility like Dowanol[®] DPnB ⁽¹⁾ and Dowanol[®] PnB ⁽¹⁾ and Texanol ⁽²⁾ are recommended (4-5% on the dry content of the binder).

FILLERS

ENCOR[®] 2793 will inherently block the stains and tannins with conventional fillers, such as Durcal 5 ⁽²⁾. In order to optimise the property we recommend Minex S4 and Minex S6 ⁽³⁾.

RHEOLOGY

For an optimum performance, the rheology of the coatings can be adjusted using associative thickeners such as HEUR thickeners: Coapur 2025 ⁽⁴⁾ and Coapur 830W ⁽⁴⁾.

Notes: ⁽¹⁾ Dow, ⁽²⁾ Eastman, ⁽²⁾ OMYA, ⁽³⁾ Sibelco, ⁽⁴⁾ Coatex

PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

STORAGE AND HANDLING

ENCOR[®] 2793 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 from the shipping date.

Shelf Life (Months): 6

Headquarters: Arkema France
51, Esplanade du Général de Gaulle
92800 Puteaux – France
T +33 (0)1 49 00 80 80