

TECHNICAL DATA SHEET

ENCOR® 2171

Acrylic Emulsion

PRODUCT APPLICATION DETAILS

ENCOR® 2171 is a hydroxylated self-crosslinking acrylic emulsion formulated without alkylphenolethoxylates, formaldehyde free, designed for 1 pack and 2 pack industrial coatings for plastics, metals and wood. Wood application: ENCOR® 2171 is suitable for the formulation of clear and pigmented sealers and satin or matt topcoats applied by spray and curtain coater. The warm aspect over wood of the coatings made with ENCOR® 2171 allows its use over either light or dark veneers in thin or thick layers. Plastics and metals application: ENCOR® 2171 is suitable for formulation of clear and pigmented high gloss topcoats applied by spray or brush.

SALES SPECIFICATIONS

| | CHARACTERISTICS | METHODS |
|---|-----------------|----------|
| Solid content (105°C) | 42 - 44 % | ISO 3251 |
| pH | 7.0 - 8.0 | 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 | 44 °C | ISO 2115 |
| Density | 1.04 g/ml | ISO 2811 |
| Hydroxyl content | 1.3 % | - |
| Average particle size | 100 max nm | ISO 13321 |
| Freeze thaw stability | - 10 °C | ISO 1147 |

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

MARKETS

Coatings & Inks

- Architectural Coating
 - Specialty Coatings
 - Trim
 - Other Architectural Coating
- Industrial Coating
 - General Industry
 - Industrial Wood Finishes

FORMULATION GUIDELINES

RECOMMENDATIONS FOR USE

ENCOR® 2171 is a dual-cure emulsion, which can be formulated in 2 different ways :

1 component self-crosslinking, in this case ENCOR® 2171 can be used as topcoat,

2 components crosslinked with polyisocyanates. ENCOR® 2171 is used direct to the substrate or as topcoat.

Formulations can be cured at ambient temperature with a Relative Humidity lower to 70% or 30mn at 70°C.

We advise a NCO/OH ratio of 1.3.

PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

STORAGE AND HANDLING

ENCOR® 2171 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

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