

ENCOR® 4157

ADHESIVES / PSA

ARKEMA COATING RESINS

ENCOR® 4157 is a high solids acrylic latex which dries into a film showing pressure sensitive properties. This product is stabilised with APE-free surfactants and is free from solvents and plasticizers.

Product Application details

ENCOR® 4157 has been designed for the production of permanent PSA articles, in the field of construction, automotive and general industry.

It can be used neat or as an adhesive formulating base.

This product can also be used to formulate tackifier-free floor covering adhesives.

Performance Benefits

- High solids
- Formaldehyde free*
- Excellent response to tackifiers
- High adhesion and tack
- Good heat resistance

* product formulated without formaldehyde or formaldehyde releasers. During normal conditions of use, this binder does not generate formaldehyde

Polymer Type

- Acrylic Copolymer

Sales Specifications

Solid Content at 105°C, % (ISO 3251)	65,0 - 66,5
pH (ISO 976)	4.0 - 6.0
Viscosity at 23°C, mPa.s (Brookfield RVT, 20rpm) (ISO 2555)	200 - 700

Other Characteristics¹

Stabilizing system	A
Tg (DSC), °C	- 33
Density / Specific Gravity at 23°C, g/ml (ISO 2811)	1.02
Average Particle size, nm (ISO 13321)	270
Liquid surface Tension (mN/m)	31.0

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

Typical Adhesive Properties¹

90° Peel after 24h on SS, N/25mm (FTM 2)	25 - 35
Loop tack on SS, N (FTM 9)	20 - 27
Shear adhesion from SS, h (FTM 8 / 1kg, 1 in ²)	15 - 40
SAFT, °C (ASTM D-4498-00 / 1kg, 1 in ²)	85 - 110

Test settings: Backing: Corona treated PET 23 µm ; Coating weight: 50g/m² ; SS: Stainless Steel

Formulation Guidelines

According to the involved coating system and the final application, the use of specific rheology modifiers and/or defoamers can be required. Compatibility and dosage have to be carefully checked in advance.

In the case of poor wetting it is suggested to decrease the surface tension with the addition of suitable wetting agents such as dioctyl sulfosuccinates.

Product Safety

Please refer to the corresponding Safety Data Sheet.

Storage & Handling

ENCOR® 4157 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.

In the above mentioned storage conditions the shelf life of the resin will be 6 months from the shipping date

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The logo for ARKEMA, with the word in a bold, sans-serif font. The 'A' and 'R' are dark blue, while the 'KEMA' part is a vibrant green.