

ENCOR[®] 4525

ADHESIVES / PSA

ARKEMA COATING RESINS

ENCOR[®] 4525 is a self-crosslinking acrylic latex, free from solvents, plasticizers and APE surfactants.

Product

Application details

ENCOR[®] 4525 has been designed for the production of removable plastic packaging tapes and semi permanent labels. The product is well suited to be coated on corona treated PE / PP films.

ENCOR[®] 4525 exhibits a very high cohesion which allows to get the right adhesion/cohesion balance without further crosslinking.

Performance Benefits

- Low VOC
- Formaldehyde-free*
- High SAFT (Shear Adhesion Failure Temperature, > 200°C)
- Excellent cohesive strength

* 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)	49 - 51
pH (ISO 976)	6.5 - 7.5
Viscosity at 23°C, mPa.s (Brookfield RVT, 20rpm) (ISO 2555)	200 - 500

Other Characteristics¹

Stabilizing system	A / NI
Tg (DSC), °C	- 42
Average Particle size, nm (ISO 13321)	200
Liquid Surface Tension (mN/m)	35

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

180° Peel after 24h on SS, N / 25mm (FTM 1)	6 - 7
Loop tack on SS, N (FTM 9)	4 - 6
Shear adhesion from SS, h (FTM 8 / 2kg, 1in ²)	> 200

Test settings: Backing: PET 50 µm ; Coating weight: 20g/m² ; SS: Stainless Steel

Formulation Guidelines

The product does not contain any defoamer. According to the involved coating system and the final application, addition of specific defoamers can be required. Compatibility has then 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® 4525 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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