



ROBOND™ FD-07 Emulsion

For Packaging and Building Materials

Regional Product Availability

- Asia Pacific
- Europe, Middle East and Africa
- Latin America

Description

ROBOND™ FD-07 Emulsion is a ready-to-use pressure sensitive aqueous acrylic emulsion for the manufacture of low noise polypropylene carton sealing tapes.

ROBOND FD-07 Emulsion is the result of many years of Dow experience in acrylic PSA technology. On top of the excellent adhesive properties for box closing application (unique balance peel/shear/tack), Dow Research and Technology laboratories developed Fast Dry technology to improve drying efficiency at high coating speed.

Typical Applications

- Low noise packaging tapes
- Printed tapes
- Consumer tapes
- Other applications, e.g. aluminium tape, book covers, strapping tape, etc.

Key Features

Coating: Outstanding drying performances
Excellent direct coating via roll and meyer bar

Adhesive: Excellent cardboard wettability, low noise unwinding, unique balance of peel/shear and tack

Converting: Clean slitting

Ageing: Excellent UV-stability

Packaging: Bulk, 1000 kg container

APEO-free APEO is not intentionally added to our products. Therefore, to the best of our present knowledge, we consider they are not present, unless at trace levels (ppm) as unknown impurities from the raw materials.

Typical Physical Properties

(These properties are typical but do not constitute specifications.)

Property	Value
Appearance	Milky white liquid
Solid Content	60%
pH	8.5
Brookfield LVT Viscosity, mPa.s	150
Tg (°C)	- 48°C
Freeze/Thaw	Protect from freezing
Particle charge	Anionic
Shelf life	6 months

Recommended Compatibility Guidelines

We recommend verification by appropriate test:

- Pigments
- Additives-tackifiers (rosin acid and ester-based dispersions)

Typical Test Results (BOPP Film)

(These properties are typical but do not constitute specifications.)

		ROBOND™ FD-07 Adhesive
Coating Weight	g/m ²	20
180° peel from stainless steel plates, 1 min. dwell time	N/inch	5–6 AF
Loop tack from stainless steel plates	N/inch ²	8–10 AF
Shear resistance from stainless steel plates, 1"x1" – 1kg	hrs.	> 100

AF = adhesive failure mode

Recommended Operating Guidelines

- Stir prior to use
- Use a low shear pump
- Filter (>50µ)
- When filling the storage tank, do not allow the emulsion to free-fall in order to avoid foam generation.
- Keep product from drying
- No need for release coat when coated onto corona/flame-treated polypropylene

Cleanup Guidelines

Clean with water and soap.

Handling Precautions

Before using this product, consult the Material Safety Data Sheet (MSDS)/Safety Data Sheet (SDS) for details on product hazards, recommended handling precautions and product storage.

Storage

Store products in tightly closed original containers at temperatures recommended on the product label.

Disposal Considerations

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Technical Representative for more information.

Food Legislation

- FDA, 21 CFR 175.105

Regulations may vary by city, state, country, or geographic region. Please contact the Dow Customer Service Group in your region for any additional, relevant regulatory information.

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- c. use as a critical component in medical devices that support or sustain human life; or
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