



# ADCOTE™ 37-220

**Description** ADCOTE™ 37-220 is an ionomer dispersion in water, based upon Dow™ Surlyn™ ionomer resin technology.

ADCOTE™ 37-220 may be used as supplied, diluted or thickened, or crosslinked for enhanced properties.

ADCOTE™ 37-220 has an excellent adhesion to metal and papers, high hot tack, low activation temperature, stable pH in storage and use and it can be easily modified for variety of applications.

ADCOTE™ 37-220 may be used for packaging, medical and industrial applications. Typical applications include heat seal coatings, saturants, protective coatings, adhesives, compounding base, primer, medical packaging and binder.

ADCOTE™ 37-220 can be used on many substrates including Aluminum foil "A" wettable, Kraft paper, Glassine-type paper, treated polyester film, moisture proof cellophane, PVdC coated cellophane, PVC, Polystyrene, ABS, Cellulose Acetate, Tyvek.

**Typical Applications**

- Binding resin.
- Blending or modifying resin.
- For food packaging, medical packaging and industrial applications.
- Heat seal coating
- Industrial laminations.
- Low temperature heat seal.
- Primer
- When good blocking resistance, and good hot tack properties are needed.

**Suggested Substrates**

- Aluminium foil, converter grade.
- Cellulosic film (cellophane).
- Other types of laminates are possible and should be tested.
- Paper.

Typical Physical Properties	Heat Seal Coating	Unit
Solids Content	31	%
Viscosity (25°C)	250 to 1200	mPa·s
Weight/Gallon	8.20	lb
Volatile Solvent	Water	
pH	9.8	
Wet Appearance	<ul style="list-style-type: none"> <li>• Liquid</li> <li>• Milky White</li> </ul>	
Minimum Heat Seal Activation Temperature	121	°C

\*These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

**Recommended Processing Guidelines**

Stir well before use to insure uniformity.

**General Comments**

Dow's Technical Service is ready to supply assistance in regards to the correct use of our products. Interaction may occur with other components of the structure. Inks, retained solvents from any source, substrates, additives, coatings and the packed product are some of the components that may cause a property change of the total structure. Before regular production, the end user is responsible to verify the suitability and performance properties of the total construction for the intended end use application, including the suitability of the process, construction and components. To ensure optimal block-resistant properties, be sure that the coated substrate is cooled over a chill roll to room temperature prior to subsequent rewind or sheeting operations. Heat seal bond performance or blocking properties may be affected by inks, other coatings, retained solvents, or other substances which may offset in a roll or a sheet.

**Recommended Application Weight**

Apply 0.8 to 8.1 g/m<sup>2</sup> dry, depending on substrate and application.

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**Drying Guidelines**

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Cool the coated material down below < 82°C to avoid blocking in the reel or sheet stack.

Dry properly with sufficient amount of heated air at adjusted temperature range of 71 to 104°C to evaporate water at given production speed.

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**Suggested Application and Operating Guidelines****Heat Seal Coating Unit**

Application Method	<ul style="list-style-type: none"><li>• Air Knife</li><li>• Flexographic</li><li>• Gravure</li></ul>
Application Solids Percent Range	> 38 %
Recommended Dilution Solvent	<ul style="list-style-type: none"><li>• Deionized Water</li><li>• Isobutyl Alcohol</li></ul>
Drying Web Temperature	71 to 104 °C
Rewind Temperature	< 82 °C

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**Suggested Cleanup Guidelines**

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A proper cleaning procedure should be implemented and practiced as part of the machine operation.

After finishing production, the equipment should be cleaned immediately with room temperature flushing water.

Clean wet deposits or spills with warm soapy water. Use a scrub brush to loosen hardened or dried deposits. Following standard safety precautions and having adequate ventilation, warm toluene or similar solvents may aid in cleaning dried deposits.

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**Storage and Shelf Life Guidelines**

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The expiry date of each product is the date reported on the label of the package.

The product may be stored up to stated expiry date provided that the product is stored in a dry and cool, well ventilated place between 5 to 10°C unopened in the original shipping container.

WARNING: Keep product materials away from freezing temperatures. Material will become unusable or may precipitate.

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**FDA and/or European Food Contact Compliance**

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Due to the evolving nature of European and FDA food contact compliances, please contact Dow's Customer Information Group for the most up to date food contact compliance information. Call 800-258-2436 or use the web form at Dow.com for complete FDA and European food contact statements available.

**Notes**

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

## Product Stewardship

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products - from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

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