

## RAINOFF<sup>®</sup> A-1800

Modified resin base, durable water repellent and extender for fluorocarbon water repellent emulsions.

### PROPERTIES

<b>Appearance</b>	- Smooth off white emulsion.
<b>pH (5% solution)</b>	- 6.5
<b>Density</b>	- 8.5 lbs./gallon
<b>Stability</b>	- Minimum 6 months
<b>% Active</b>	- 25%
<b>Solubility</b>	- Readily in water at room temperature.

### GENERAL COMMENTS

**RAINOFF<sup>®</sup> A-1800** is a resin based durable water repellent emulsion especially designed for use as an extender in the fluoro-chemical oil and water resistant finish. Extensive testing has proven this product to be an outstanding excellent extender for the following.

**RAINOFF<sup>®</sup> A-1800** delivers excellent water repellent and stain resistant characteristics when used with Zepel<sup>®</sup>, Scotchgard<sup>®</sup> and Milease<sup>®</sup> fluoro-chemical products.

**RAINOFF<sup>®</sup> A-1800** is slightly cationic and is therefore compatible with typical fabric finishes.

**RAINOFF<sup>®</sup> A-1800** exhibits good pad bath and processing stability in the presence of thermosetting resins and catalyst.

**RAINOFF<sup>®</sup> A-1800** can give considerable savings by reducing the time for preparing the pad baths; eliminating steam and heat as required for other extenders, and shows improved performance and efficiency for less extender cost.

**RAINOFF<sup>®</sup> A-1800** is also useful as a durable water repellent finish for application alone or with thermosetting resins on cottons, rayons, nylons and an appropriate metal salts catalyst.

### APPLICATIONS

- To insure optimum wash fastness and dry cleaning fastness, the fabric should be thoroughly cleaned and rinsed to permit full absorbency of applied finish solutions.
- In application where the fabric is to be "napped" the use of **RAINOFF<sup>®</sup> A-1800**, without catalyst or curing, gives a most desirable hand and offers some lubricity to the napping operation.

Under normal padding conditions with a minimum of 75% wet pick-up, we suggest the following formulation for the use as an extender in fluoro-chemical applications:

A. Oil and water stain repellent non- resinous formulation:

- 10% **RAINOFF® A-1800**
- 2-1/2% Scotchguard® FC-208 or 4-1/4% Zepel or 2% **RAINOFF® F-88**

Mix well, apply by pad, foam or spray, dry cure at 270-330°F.

B. Durable water repellent formulation – Cotton or Rayon outerwear:

- 10-15% **RAINOFF® A-1800**
- 3-4% **ECCO REZ M-907™** (Melamine formaldehyde replacement resin)
- 2% **CATALYST RD LIQUID™**
- 1% Aqua Ammonia
- 79-85% Water

Pre-dissolve the **CATALYST RD LIQUID™** in a portion of the water, add to the **RAINOFF®**/resin solution and apply, followed by normal curing at 320°F for 3-4 minutes.

Differences in fabric weight may necessitate changes in curing conditions or modification of the above formulations to give softer hand.

## STABILITY

**RAINOFF® A-1800** is considered stable for 6-9 months storage under normal conditions. Protection from freezing is necessary as successive freezing and thawing will cause the emulsion to deteriorate.

\* Scotchgard FC-208® . . . Minisota Mining & Manufacturing Company.

\* Zepel® . . . . . E.I. Dupont Company.