

ECCOPEL™ Z

CLASSIFICATION

Zirconium salts, semi-durable water repellent.

PROPERTIES

Appearance	Smooth, white, liquid emulsion
Solubility	Completely soluble at room temperature water
pH (5%)	4.3 +- 0.3
Active Content	23.0 +- 0.5
Density	8.25 lbs/gallon

GENERAL COMMENTS

ECCOPEL™ Z is a one-package, zirconium base, high melting wax water repellent product designed to give excellent spray ratings to all textiles and is especially recommended for synthetic fabrics. Fabrics treated with **ECCOPEL™ Z** show considerable resistance to laundering and dry cleaning. In applications where **ECCOPEL™ Z** is applied with thermosetting resins with catalysts or acrylic type resins, the durability properties are even more outstanding, in addition to crease-proofing and shrinkage control derived from the resins present. Application by exhaustion on to woolen material results in excellent water repellency properties.

ECCOPEL™ Z imparts no stiffness of fabrics and no appreciable mark-off as well as exhibiting excellent running properties.

ECCOPEL™ Z is completely soluble in water at 100-120 °F to form white stable scum-free solutions. The freezing of **ECCOPEL™ Z** does not appear to cause any deterioration in the emulsion. However, frequent freeze and thaw cycles should be avoided.

APPLICATIONS

The recommended application of **ECCOPEL™ Z** is by padding or quetch with frame or can-drying @ 220-240 F. Where resins are present, temperatures of 300°-320°F will be required. Padding temperatures of 120°-130°F are suggested. No pre-dissolving of the **ECCOPEL™ Z** is required.

The suggested use of 5% - 6% of **ECCOPEL™ Z** is sufficient to obtain satisfactory water repellency on synthetic fabric. Slightly higher concentrations are recommended for cotton and rayon materials.

For thermosetting resins, the following is suggested:

12.0 % ECCOPEL™ Z	OR	10.0 % ECCOPEL™ Z
7.0 % ECCOREZ S-1050		5.0 % ACRYLIC EMULSION
1.0 % CATALYST RD or MgCl 2 Type		