

# FRJ-551

## Description

FRJ-551 is a heat-reactive, alkylphenolic resin which is designed primarily for use in the formulations of polychloroprene-based contact adhesives.

## General Product Data

### Product Specifications:

Melting Point, Capillary, (°F)	170-195
Softening Point, B&R, (°C)	100-110
Methylol Content, (%)	12-16
Color, Gardner, 60% in Toluene	0-8
Viscosity, Gardner-Holdt, 60% in Toluene	D-J

Test Methods available upon request

### Typical Properties:

Specific Gravity	1.03
Physical Form	Flake

### Solubility:

FRJ-551 is soluble in aromatic and aliphatic hydrocarbons, esters, ketones and partially in higher alcohols.

## Application

The primary function of FRJ-551 in polychloroprene contact adhesives is to impart low initial viscosity and maintain viscosity-stability. Adhesives of this type depend on an interaction of the elastomer and metal oxides for the development of their high cohesive strength at room temperature and elevated temperatures.

## Typical Contact Cement Formula

### Part A: Rubber Base:

Material	Parts by Weight
Polychloroprene AD	100.0
Zinc Oxide	5.0
Magnesium Oxide	4.0
Ethanox® antioxidant <sup>1</sup>	2.0

Dissolve to 25 percent solids in solvent of choice.

### Part B: Resin Pre-Reaction:

Material	Parts by Weight
FRJ-551	45.0
Magnesium Oxide	4.5
Water	2.0

Dissolve to 50 percent solids in solvent of choice. Agitate a minimum of three hours.

### Finished Adhesive:

Add **Part B** to **Part A** with mixing to complete the formulation.

<sup>1</sup> Product of SI Group Inc. - Ethanox® 310, Ethanox® 4702

## Storage And Shelf Life

FRJ-551 should be stored where temperatures do not exceed 86 °F (30 °C) for long periods of time. For best results, it is recommended that this product be used within 1 year of manufacture date. As with all phenolic resins, FRJ-551 will become darker with age. Pallets should never be stored double stacked.

**Note:** Resins of this type are known to agglomerate or sinter during storage. This condition does not affect the performance of the resin in its normal application and is not considered justification for rejection or return.

## Packaging

FRJ-551 is packaged in bags at 25 kilograms net weight, stretch-wrapped on pallets.

## **Safety And Regulatory Information**

For a current Safety Data Sheet (SDS) or other regulatory information, contact SI Group, Inc. at [productinfo@siigroup.com](mailto:productinfo@siigroup.com).