AKROCHEM CORPORATION

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CHEMICAL DISPERSIONS
-AQUEOUS-

HRJ-11112
(formerly W-10003)

PRODUCT DESCRIPTION:
HRJ-11112 is an aqueous emulsion of a thermoplastic terpene-phenolic resin with small particle size. The base for this resin is SP-560 (P-03), which is noted for its high melting point.

TYPICAL PROPERTIES:

Solids Content (%)	39 - 45
Specific Gravity	1.05
pH	9 - 10
Particle Size	Less than 3 microns
Viscosity, Brookfield (cps)	400 - 800

CHARACTERISTICS:
HRJ-11112 has been specifically designed to be compatible with polychloroprene latex systems that have a high pH. Other high pH elastomer latex systems can also be used as long as the stabilizer systems are compatible. HRJ-11112 is used where tack and heat resistance are desired properties. It can be blended with latex systems that have high pH without coagulation. HRJ-11112 contains small quantities of a glycol ether.

It is recommended that zinc oxide and an antioxidant be included in formulations made with this material. Best results will be noted where pressure can be applied to the assembled pieces after coating with adhesive. The use of heat can also improve the bonding process. The open time of adhesives made with HRJ-11112 Resin is usually up to 90 minutes.

STORAGE:
HRJ-11112 is quite stable both by itself and when compounded in an adhesive. Storage at 40-50°F will provide the longest shelf life.

Note: HRJ-11112 will irreversibly coagulate if freezing occurs. During cold weather, protection from freezing should be provided during shipping and storage.

COMPOUNDING:

Antioxidant Dispersion:

	Parts
Antioxidant 235	100
Daxad 19, 10% aqueous solution	30
Ammonium Casseinate, 10% aqueous solution	30
Mona Wet MO-70	4
Water	136

Wet-grind all materials for 48 hours in a ball mill. Let settle for 2 hours prior to using.

Zinc Oxide Dispersion:

	Parts
Akrochem® Zinc Oxide XF	100
Daxad 19, 10% aqueous solution	30
Ammonium Casseinate, 10% aqueous solution	30
Sodium Silicate, 10% aqueous solution	5
Water	35

Wet-grind all materials for 24 hours in a ball mill. Let stand for 2 hours prior to use.

Typical Adhesive Formulation:

	Parts
Neoprene L-750, 50% solids	100.0
Zinc Oxide, 50% solids	10.0
Antioxidant 235, 33%	3.0
HRJ-11112 Resin, 40%	41.6

Blend Neoprene L-750 with zinc oxide and antioxidant. Slowly add HRJ-11112 and stir for 10 minutes.

Neoprene L-750 is a product of E.I. DuPont de Nemours; Daxad 19 is a product of Grace, Organic Chemicals Division; Antioxidant 235 is a product of Akrochem Corporation; Mona Wet MO-70 is a product of Mona Industries Inc.