



MaxxaPel® 1200 Water Repellent Base

MaxxaPel 1200 is a water repellent concentrate base in prilled form. It is 100% active, and is designed for use by chemical formulators to make water repellent emulsions for use in a variety of applications including textiles, non-wovens, paper as well as fluorochemical extenders. Products manufactured from MaxxaPel 1200 water repellent base offer improved water impact penetration, spray ratings and hydrostatic pressure performance.

TYPICAL PROPERTIES

Appearance	Tan Pastille
Non-Volatile Solids	98-100%
Ionic Nature	Cationic
Emulsifies in water	Procedure Below
Weight per gallon (25%)	8.2 lbs.
Viscosity (25% solution @25°C)	100 max
pH,	4.5-6.5
Melting Point, °C	71-74
Stability of emulsion	>Six months at room temperature

Emulsions prepared from MaxxaPel 1200 water repellent base are used to make water repellent finishes for woven and non-woven fabrics. The emulsion can be used on fabrics consisting of cotton, synthetics, and/or blends and acts as a fluorochemical extender for C6 or C8 fluorochemical water and oil repellents.

Once the emulsion is applied to fabric and heated until dried, it becomes a durable finish coating that will maintain through multiple laundering and dry cleaning. This durable finish provides excellent properties for water impact penetration performance, spray-rating performance with enhanced hydrostatic pressure and dynamic absorption properties.

MaxxaPel 1200 emulsion allows for the reduction in usage levels of fluorochemicals versus conventional water repellent products. MaxxaPel 1200 is 100% active for efficient shipping and is available in 50-pound boxes or 300 pound drums.

Emulsion Preparation:

For 10,000 lb. at 25% Activity.

1. Charge 7,500 lb. water and 10 lb. glacial acetic acid to mixing vessel equipped with steam heating and a high shear agitator. Heat the mixture to 80°C – 85°C.
2. Charge 1 lb. of Surfactant for added emulsifying properties if needed.

3. Charge 2,500 lb. MaxxaPel 1200 water repellent base. Once the entire base has melted, use high shear agitation to form a pre-emulsion. Maintain temperature at 80°C – 85°C.
4. Pass the pre-emulsion through a valve and seat type homogenizer such as those manufactured by APV Gaulin or Cherry Burrell at 3000 - 4000 psi. NOTE: Homogenization is very important for producing good stable emulsions.
5. The discharge from the homogenizer should be cooled as fast as possible. Passing it through a heat exchanger before sending it to a holding or drumming tank most effectively does this. Otherwise, send the discharge to a vessel equipped with good cooling and gentle agitation. Excessive agitation of the emulsion generates foam, which will not readily dissipate.

APPLICATION AND USE:

Emulsions made from MaxxaPel 1200 base can be applied alone to give a soft durable water repellent finish alone or in conjunction with resins to give crease and shrink resistance in addition to water repellency.

Emulsions made from MaxxaPel 1200 are also an excellent extender for fluorochemical products and are compatible with most cationic and nonionic substances.

Fabrics and paper to be finished with MaxxaPel 1200 emulsions must be properly prepared so as to not contain any residual wetting agents or other chemicals which could cause rewetting of the finished product.

When used solely as a water repellent, MaxxaPel 1200 emulsion pad bath concentrations should be in the range of 4-10% owg. The exact concentration depends on fabric construction, pick up and the degree of performance desired.

Treated fabrics should be dried and cured at 330°F / 165°C until dried for maximum durability to washing and dry cleaning.

When used in conjunction with durable press resins, pad baths should contain a suitable catalyst and the fabric cured according to the recommendation of the resin supplier.

Emulsions of MaxxaPel 1200 are normally applied in the range of 2-5% when used as a fluorochemical extender.

Emulsions of MaxxaPel 1200 are on the "List of Approved Water Repellent Treatments" for military fabrics.

Let MCTRON Technologies raise your expectations.

McTron Technologies, LLC Technical Support Team is available to provide assistance with the formulation of all our products to optimally suit your specific needs.

McTron Technologies LLC Guarantee

If any product is defective in workmanship or materials, McTron Technologies, LLC will replace the product, or refund the full purchase price. This warranty is in place of all other warrants, expressed or implied, and all implied warrants of a product for an intended use shall be solely up to the user. McTron Technologies, LLC assumes no liability for consequential damages. Its liability shall in no event exceed the purchase price of materials supplied by it.