



# Flexipel™ HR-C400

Nonfluorinated Water Repellent

## Overview

- Nonfluorinated water repellent developed for use on fabrics and upholstery
- Used on fabric substrates including cotton, cotton/polyester blends, and polyester
- **Water Repellency Ratings** of 3-4 on fabric substrates such as 100% cotton, 100% polyester, and cotton/polyester blends
- **Water Spray Ratings** of up to 80 on 100% cotton, up to 100 on 100% polyester, and up to 90 on cotton/polyester blends for heat cure treatments
- **Water Spray Ratings** of 55 on 100% cotton, 55 on 100% polyester, and 60 on cotton/polyester blends for ambient cure treatments
- Non-combustible

## Applications

- Treatment of textile substrates such as cotton, polyester, and cotton/polyester blends
- Treatment of fabrics with heat cure or ambient cure

## Technical Information

Flexipel HR-C400 is a cationic nonfluorinated water repellent for fabrics. Protection is provided for water and water-based stains on a variety of textile substrates including cotton, polyester, and cotton/polyester blends. Flexipel HR-C400 contains renewably sourced, plant-based material. Flexipel HR-C400 may contain up to 3% VOC content based on the EPA definition in 40 CFR 51.100.

## Formulary

For a pad/dry/heat cure application, Flexipel HR-C400 is diluted for use with a recommended starting point of 2-4% (as delivered) in water. Heat cure of 120°C (15 min.) -160°C (3 min) is a starting point range.

For ambient cure applications, Flexipel HR-C400 is diluted for use, and a higher loading level of the Flexipel HR-C400 is required. A starting point of 10-13% OWF is recommended. Ambient cure time of at least 24 hours is recommended.

Flexipel HR-C400 is compatible with commonly used textile auxiliaries such as resins and cross-linkers.

## Typical Properties

PROPERTY	VALUE
Appearance	Opaque Emulsion
Color	White
pH	4.0 to 7.0
Water solubility	Miscible
Solids, %	11.5 to 13.0
Ionic Nature	Cationic
Density@25°C	1.005 ± 0.02 g/ml
Boiling point	est. 100°C
Flash point	Non-combustible
Storage	Perishable if frozen. Keep container tightly closed. Store in a well-ventilated location and keep cool.
Shelf life	12 months

## Packaging and Handling

Flexipel HR-C400 is available in:  
275 gallon totes (Net Wt. 2250 lbs)  
55 gallon plastic drums (Net Wt. 450 lbs)  
5 gallon plastic pails (Net Wt. 40 lbs)

Refer to the Safety Data Sheet (SDS) for information on the safe use, handling, and disposal of this product.

DOT Classification: Non-Regulated

Whether you are looking for a replacement product or an ingredient for a specific attribute, give us a call. We can provide assistance based upon your particular formulation requirements and composition. Please feel free to contact us.

# Flexipel HR-C400

## Nonfluorinated Water Repellent

This information relates only to the specific material referred to herein and not to its use in combination with any other material or in any process, unless explicitly stated herein. Such information is, to the best of our knowledge and belief, accurate and reliable as of the date compiled; however, no warranty, guarantee or other representation is made as to its accuracy, reliability, or completeness, or regarding any liabilities arising from others' intellectual property rights. ID# 20170802

An ICT Industries Inc. company 