

# Bioflx Ground and Equipment Protection Mats and Tarps

## INDUSTRY CONTACT:

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## BACKGROUND:

Formflx Technology manufactures highly durable mats and tarps consisting of automotive-grade fire-resistant rubber, ethylene propylene diene monomer (EPDM) and neoprene. The tarps are customizable because of the size of the individual tiles that make up the tarp and the grommets that can fasten to equipment or other tarps. The product is not restricted by the environment and can be used by emergency services to protect the ground, property, equipment and can even be used at accident scenes to shield victims.

## OBJECTIVES:

The objective of this collaboration was to test the FormFlx tarps for performance of the material and to validate the product when exposed to extreme conditions and compare it to canvas-type material. The project would determine both the strengths and weaknesses of the FormFlx staging mat and assess whether or not it would be a viable alternative to the one currently in use.

## OUTCOMES:

Various experiments were carried out to evaluate FormFlx tarps' strength, durability, heat resistance, flame resistance, low temperature performance and resistance to water, mildew, punctures and load weight. Students and faculty established that FormFlx tarps were superior to the usual canvas being used for firefighting purposes which allowed them to successfully procure contracts with fire departments.

## THE COLLEGES ONTARIO NETWORK FOR INDUSTRY INNOVATION (CONII):

CONII began in 2006 as a consortium of 10 colleges aimed at helping small- and medium-sized enterprises (SMEs) solve their technical problems, adapting new technologies for the marketplace, and developing new or improved products and processes. It has since grown to include all of Ontario's 24 colleges, giving it the strength of a true province-wide network.

## FOR MORE INFORMATION, PLEASE CONTACT:

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