

## Co-operation profile details from Enterprise Europe Scotland

### 12 IL 80ER 3NTS - Flame retardant (FR) Water-Based Acrylic Polymer for Textile and Paint Industry Technology collaboration OFFER

#### Abstract

An Israeli SME has developed a flame retardant water-based acrylic polymer for various applications, mainly in textile & paint industry. Advantages over those on the market include environmental friendliness, transparency, easy incorporation in various materials, good compatibility & pH-stability etc. Looking for licence and commercial agreement with technical assistance, as well as for technical cooperation.

#### Description

In order to give properties to their mixtures / compositions, current textile and paint industry use the compounds which contain chemically non-bound bromine.

In view of environmental protection, such mixtures are dangerous for their ability to release bromine into environmental surrounding.

The company has developed and offers a flame retardant environmentally friendly mixture (polymer composition) containing a newly developed polymer with chemically bound bromine. This flame retardant (FR) polymer composition gives the user an opportunity to pass local standards in each country with the ease of a regular acrylic binder – so, the product can be used as a regular binder in the textile and paint industry. This property of the polymer composition is unique and gives the user full flexibility to choose both substrate and durability of the application. The product is aiming to the finisher of the textile industry and to varnish producers in need of FR properties. The polymer composition is patent protected around the world.

The company would appreciate cooperation with industrialists intending to solve fire resistance problems to meet the standards requirements applied in their countries.

The company is well established and has an experience of over 25 years in polymer developments, production and distribution. The company strives to develop new nano materials with special properties under the concept of " smart carrier" .

#### Innovative Aspects:

##### Innovative Aspects of the Offer

- 1.Universal water-based acrylic polymer, "smart carrier" of fire resistance property without releasing free bromine in the process of substrate (fabric, paint etc.) manufacturing.
- 2.The polymer is Nano-structured (produced in nanotechnology process).

#### Main advantages of the Offer

- 1."Green" product, as compared to those on the market
- 2.Transparency, up to 100 %
- 3.Easy to use (easy incorporated in various systems / materials).

#### Target partner expertise sought:

- Type of partner sought: 1. type of the partner sought - industry

2. the specific area of activity of the partner - manufacturer / distributor / user of technical and home-use fabrics (for any fields of application), which require fire retardancy.

3. the tasks to be performed – to use the product offered via license agreement, to test its new applications and adaptation to specific needs, to cooperate in technical consultancy and quality control.

- Specific area of activity of the partner:

- Task to be performed by the partner sought:

#### Key information:

Country of origin: ISRAEL

Listed under: Building and Construction \ Materials \ Nanotechnology & Nanoscience \ Medical Devices

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