

# @-NOVATECH

## our selection for july 2007

### MATERIALS :



#### SHOCK-PROOF TEXTILE

"activates protection system" by Dow Corning is a 3D textile which becomes rigid under the impact and flexible again after the shock.

This material is based on a 3D textile coated with a silicone skin which can absorb instantaneously the energy of the shock and dissipate it into the adjoining areas of the shock.

This textile, which remains flexible and breathable without impact, is an alternative in terms of shock absorption offering lightness and compactness.

You can use several layers of this material at the most exposed areas to absorb violent shocks. As it is not necessary to remove this protection system to clean it, it can be sewed directly to the fabric, ensuring a maximal effectiveness.

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#### PE FOAM

"Droptec" of Beco Bermüller is a conglomerate of PE foam flakes, thermally welded, without use of adhesive, nor chemicals. This material is available in rolls of 1m x 10m or in sheets of 1m x 2,25m, with thickness between 15mm and 50mm.

Designed as a draining material, it is possible to add grooves on the top surface or to stick it on a no woven fabric.

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#### STONE LAMINATE

Richter Furniertechnik achieved a stone laminate made with very thin layers of slates (between 0,1 mm and 2 mm thickness). They are stuck on a glass fibers fabric or kraft paper (150g/m<sup>2</sup> mini) then coated with polyester resin.

Different finishings are available, based on colors variations of the mineral itself, or depending on oxidation or corrosion colouring.

More specific surface treatments as protection treatments may darken the material. This material can be used as decorative panels for walls and floors, or surfacing of furniture.

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#### PLA TEXTILE

Antex is making textiles in 100 % PLA based on Ingéo® fibers that are produced from corn.

After the extraction of the corn's starch, it is changed into sugar to give, after fermentation and polymerization phases, the PLA (acid polylactic) which will be extruded in a yarn shape.

The yarn manufactured by ANTEX is OekoTEX label approved : it is an example of synthetic fibers with low impact on environment (bio-compostable and made from renewable elements).

PLA fibers are naturally hypoallergenic, have good properties of heat insulation, are UV resistant and have a low inflammability.

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### INDUSTRIAL PROCESS :



#### COATING ON TEXTILE

A polymer (PU) is injected into the center of a cylinder and covers the textile while passing through the holes of the roller (circular or hexagonal form).

It is possible to coat a single face of the textile, or as for serigraphy to create masks on the external surface of the roller (using a varnish coat). This allows to create patterns on the textile with high quality copy property.

This technique ensures a resistant and precise coating with low friction and no tension on the fabric surface. It is possible to work on any kind of textiles, from the finest to the thickest, of any nature, even most delicate. Moreover, this sort of finishing is compatible with all kinds of finishing process.

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