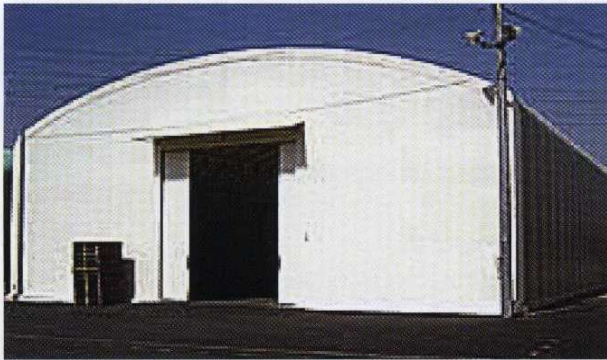


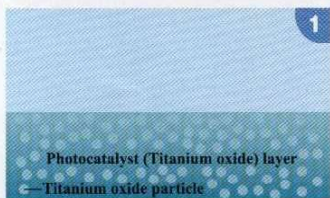
Dynastar

“Dynastar” is a high quality membrane material with high stain resistance, using TiO₂'s photocatalytic action.

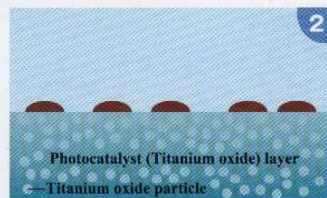
- Special photocatalyst-based stain-resistant technology, “Self renewal system”
- Weldable by high frequency or hot air etc



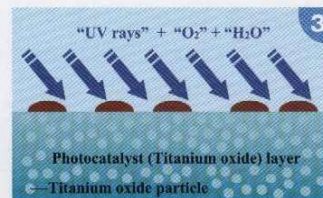
Self renewal system



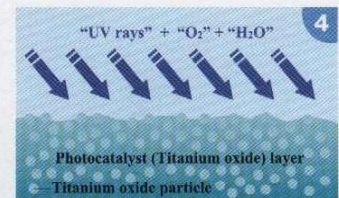
Cross section of photocatalyst-coated membrane material “Dynastar”



adhesion of stains on the surface



Photocatalytic action is activated by sunshine (UV rays), oxygen in the air and water (rain)



Self renewal system begins to perform

Physical property

Product name	width x length	thickness	weight	tensile strength		elongation		tear strength	
				warp	weft	warp	weft	warp	weft
Dynastar	103 cm x 50 m (41" x 55 yd)	0.48 mm	560 g/sqm (17 oz/sq.yd.)	1,528 N/3cm	1,292 N/3cm	20 %	26 %	84 N	93 N
Dynastar B300	104 cm x 50 m (41" x 55 yd)	0.58 mm	850 g/sqm (25 oz/sq.yd.)	3,300 N/3cm	2,900 N/3cm	4.6 %	7.4 %	200 N	170 N
	204 cm x 50 m (80" x 55 yd)								

Note: The above data are not guaranteed value, but initial measured value.

Dynastar

< Self-cleaning TiO₂ membrane material for tent warehouse etc >

① **TiO₂-based self-cleaning technology**

This special membrane material will keep new tent warehouse clean for a long time.

② **Excellent Weldability** (by HF welder and Hor Air)

No need to grind the top coat before apply welding

<outdoor exposure> on our factory premises (Fukui prefecture)

Stage 1 : 0 month (Just installed)



Stage 2 : 2 months later



Self cleaning system does **NOT MUCH** perform **YET**.

Stage 3 : 6 months later



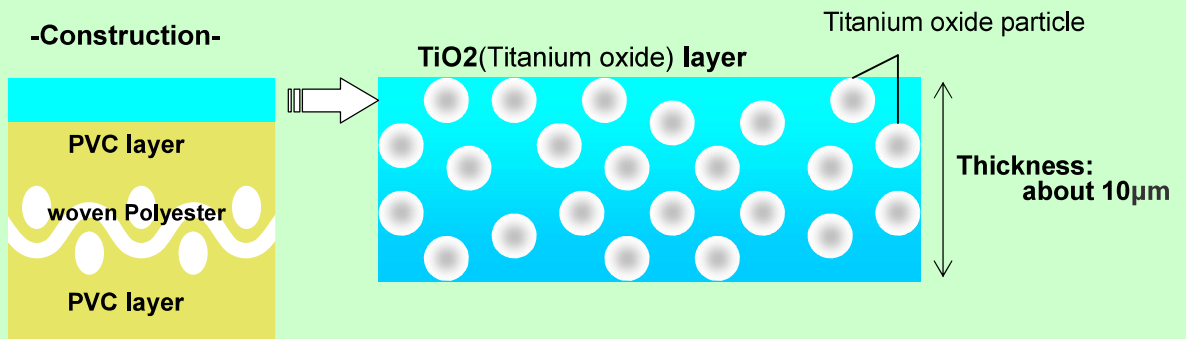
Self-cleaning system **begins to perform**.

Stage 4 : 13 months later

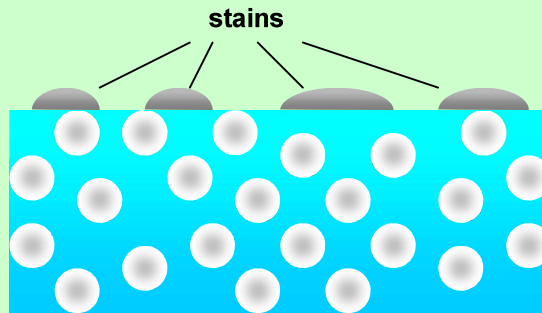


Self-cleaning system **performs well**.

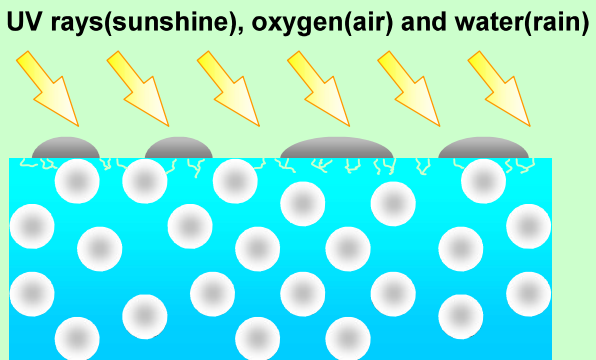
<Self-cleaning system> “Patented”



① Stains by rain etc. adhere to the surface of this material.



② UV rays(Sunshine), oxygen(air) and water(rain) activate titanium oxide to decompose a top layer of this material.



③ Stains and decomposed top coat come off by rain etc. Thus, this top layer gets thinner by about 1µm per year.

