***ProtecTuff® ML72222***

***Sand Blasting Helmet Lens Covers***

*Multi-layer hard coated Tear Off Lens Covers*

*Designed for RPB, Bullard, Clemco and others*

**PRODUCT APPLICATION:**

Vampire Optical Coatings’ patented ProtecTuff® multi-layer lens covers provide a combination of advanced abrasion and chemical resistant coated films with multi-layer peel off functionality; thereby, providing higher clarity constructions, fewer lens cover change outs, enhanced productivity and ease of use unsurpassed in the industry. This lens cover system is designed with integrated pop-up tabs that ease use of the tear off lens system. This product is engineered to work with multiple specific manufacturers blasting helmets.

## INSTRUCTIONS:

1. Remove the used tear off system from the blasting helmet
2. Slide the laminated lens stack into the guide clips at the end/edges of the helmet frame.
3. Snap the right and left edges of the lens stack into place
4. Make sure that the tabs are inserted into the opening in the helmet window- except the 7-mil bottom tab- it should stay under the frame of the door which holds the lens system.
5. Close the helmet frame, latch it and start blasting

## FEATURES:

* Multiple layers for fast easy removal of damaged layers or surface contamination
* High tech easily removable layers leave no residue on underlying layer of lens covers
* No air gaps in construction means high light transmission and low haze
* Bonded construction means no dirt, paint or water gets between the layers to damage the covers or occlude your vision
* Pop-up tab system enhances productivity due to reduced time removing damaged or contaminated protective layers
* Extended life due to scratch, chemical and stain resistant coating on every internal layer of the construction
* Patented Technology

Table 1

ProtecTuff™ multi-layer film Performance versus Incumbent Sand Blasting Helmet Products

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | ProtecTuff™ ML7222 | Competitor A | Competitor B | Test method |
| # layers | 5 | 5 | 5 |  |
| Fully laminated | Yes | Sonically welded at edges of stack | NO |  |
| Light Transmission before use (%) | 88.0% | 59.7% | 66.40% | ASTMD1003 |
| Haze before use (%) | 1.36% | 9.86% | 3.35% | ASTM D1003 |
| Abrasion Resistance (Bayer Abrasion- 25 cycles Alumdum 10 grit, haze increase) | 2.30% | 17.10% | 14.70% | Internal test method-more haze equals faster wear rate |
| Comparative Life | 6.5 to 7.5 times less wear during test |  1 | 1 | Ratio of haze increase from abrasion test |
| Layers hard coated | Yes | No | No |  |

**PRODUCT CONSTRUCTION:**

* abrasion and chemical resistant film in a multi-layer stacked construction
* Designed as a ‘CASSETTE’ that slides into the exiting fixtures on commercial blasting helmets