

Industrial Glass Grades

ISO FUSION® V700

ISO FUSION® V700 is the primary industrial contact surface finish generally used for bulk solids, storm water, filter tanks and sludge storage. An established low cost solution delivering security and protection through Permastore's 100% inspection, high voltage zero discontinuity coating specification which is defect free at test voltage.

- **Application:** pH 3-9
- **Type:** 2 coat, 1 fire
- **Thickness:** 200-360 microns
- **Test Regime:** Zero discontinuities at 700V
- **Exceeds quality requirements of EEA 7.20**
- **Meets or exceeds the glass coating requirements of AWWA D103-09 – Section 10.4**
- **Meets or exceeds quality requirements of EN ISO 28765:2011***

TRI FUSION®

TRIFUSION® has rightfully become the standard by which all other finishes are assessed. This proven high quality contact surface finish sets the benchmark for use in the more demanding areas of industrial effluent treatment and sludge digestion. An additional protective layer, together with the zero discontinuity finish tested at an exacting 1100 Volts, provides exceptional security and continuous protection.

- **Application:** pH 2-11
- **Type:** 3 coat, 2 fire
- **Thickness:** 280-460 microns
- **Test Regime:** Zero discontinuities at 1100V
- **Exceeds quality requirements of EEA 7.20**
- **Meets or exceeds the glass coating requirements of AWWA D103-09 – Section 10.4**
- **Meets or exceeds quality requirements of EN ISO 28765:2011***

HV ISO FUSION®

HV ISO FUSION® is the premium grade of the ISO FUSION® range. Combining the commercial benefits of ISO FUSION® glass and the established confidence associated with high voltage testing. Delivering a high grade zero discontinuity coating for optimum protection in specific areas of application which is defect free at test voltage.

- **Application:** pH 3-10
- **Type:** 2 coat, 1 fire
- **Thickness:** 200-360 microns
- **Test Regime:** Zero discontinuities at 900V
- **Exceeds quality requirements of EEA 7.20**
- **Meets or exceeds the glass coating requirements of AWWA D103-09 – Section 10.4**
- **Meets or exceeds quality requirements of EN ISO 28765:2011***

TRI FUSION® PLUS

TRIFUSION® PLUS finish takes Permastore's acclaimed TRIFUSION® standard to an even higher level, for use in the most extreme of environments. Aggressive chemical and high temperature processes can be considered with this high quality contact surface finish, offering zero discontinuity when tested to 1500 Volts.

- **Application:** pH 1-14
- **Type:** 3 coat, 2 fire
- **Thickness:** 340-500 microns
- **Test Regime:** Zero discontinuities at 1500V
- **Exceeds quality requirements of EEA 7.20**
- **Meets or exceeds the glass coating requirements of AWWA D103-09 – Section 10.4**
- **Meets or exceeds quality requirements of EN ISO 28765:2011***

* **Note:** EN ISO 28765:2011 Vitreous and porcelain enamels – Design of bolted steel tanks for the storage or treatment of water or municipal or industrial effluents and sludges, covers both the glass coating requirement and the tank structure design and as such is the first dedicated international standard specifically created for the Glass-Fused-to-Steel product applicable for water and wastewater applications.

A Zero Discontinuity policy applies to ISO FUSION® V700, HV ISO FUSION®, TRIFUSION® and TRIFUSION® PLUS for the tests shown.

All applications are subject to concentration and temperature considerations. All specifications relate to the contact surfaces only.

A detailed specification is available on request.

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