

## Vinyl Ester Glass flake –MVG3000

### Product description:

Two-component glass flake reinforced epoxy vinyl ester.

### Field of application and properties:

Vinyl Ester Glass Flake MVG 3000 is a high performance glass flake – filled coating, used for protection of steel and concrete. It has an excellent abrasion, impact resistance, long term corrosion protection with high thermal stability and impermeability. This coating has an excellent chemical, acidic and alkaline resistance too.

**Recommended Use:** as a protective coating for use on tanks, absorption towers, heat exchangers and etc.

### **Physical Data**

Finish ..... gloss  
Color.....gray/limited color  
Substrate ..... Primed steel  
Components ..... 2  
Solid Weight .....100 %  
Volume Solids .....100 %  
DFT ..... 400-800 microns  
WFT .....400-800 microns  
TSR ..... (2 m<sup>2</sup>/lit) for 500 microns  
Pot life (at 20°c) ..... 30 min

Pot life (at 35°c) ..... 15 min  
Specific Gravity.....1.35 ± 0.05  
Thinner ..... None  
Shelf life (25 °c) .....6 month

### **Drying times (at 25°c)**

Surface dry (25 °c) .....1 hrs.  
Thorough dry (25 °c) .....24 hrs.  
Full cure .....4 Days

### **Over coating time (at 25°c)**

Minimum..... 4 Hrs.  
Maximum.....24 Hrs.

## **PPLICATION DETAILS**

### **Surface Preparation:**

#### **Steel:**

Remove oil and grease, etc. with suitable detergent. Remove salt and other contaminants by (high pressure) fresh water cleaning. Use abrasive blasting to SA 2 ½. After blasting, clean the surface carefully from abrasives and dust with vacuum equipment or dry clean air. If necessary, chemical preparation should be done by acid pickling, alkaline cleaning, phosphating or chromating.

#### **Concrete:**

The concrete must be fully cured, e.g. 28 days for normal Portland cement and completely dry with a humidity content in the surface below 4%. The concrete must also be controlled for absence of capillary water action or for subsoil water. Remove dust and loose particles. Prepare necessary profile by dry abrasive blasting, wet abrasive blasting, water jet, etc. If chemical treatment is possible, the surface must be treated with acid etching. For this purpose, an approximate 5% (by weight) nitric or phosphorous acid solution is recommended. Prior to etching, the concrete should be saturated and cleaned with fresh water to prevent acid corrosion of the reinforcement bars.

### **Application Condition**

The surface must be completely clean and dry and its temperature must be at least 3.5c above the dew point and the relative humidity below 85% (preferably 40- 60%).

Air temp ..... 10-50 °c

Surface temp..... 3-5°c above dew point

### **Application procedure**

1. Flush equipment with recommended cleaner.
2. Stir base to an even consistency with a power mixer.
3. Add cure to base & continue Stirring up to uniformity

Note: since the pot life is limited, do not mix more material than will be used.

4. Stir during application to maintain uniformity of material.
5. Apply 500µ of the wet film thickness to reach 500µ dry film thickness.