SPECIALIZED COATING SYSTEMS
Tel: 086 137 2468 / 011 552 0300
Email: enquiries@speccoats.co.za
Website: www.speccoats.co.za

Epoxy Flake Glass 1000

Solvent based epoxy coating containing a high percentage of glass flakes

A two component, high solids, aliphatic amine cured epoxy finish coat containing chemically resistant flake glass.

Intended Uses:

A high performance, high solids two component epoxy containing a high percentage of flake glass. This product has excellent corrosion resistance properties.

Properties:

- Can be applied up to a thickness of 1000µm.
- Protects steelwork in areas where high abrasion and corrosion resistance are required.
- Used in splash zones in marine conditions such as jetties, decks, and bridges.
- Used in chemical plants, pulp, and paper mills and for secondary containment linings, water treatment plants and mining process plants.
- Resistant to a wide range of chemicals.
- This product can be applied directly onto abrasive blast cleaned steel surface or as a top-coat system used over a compatible undercoat system e.g. Epoxy Multi Prime.

Technical Data:

Colour	Red oxide & grey
Finish	Gloss
Density	1.53 Kg / Litre (Comp. A) 1.03 Kg / Litre (Comp. B) 1.43 Kg / Litre (Mixed)
Volume Solids	83%
Mix Ratio (Volume)	4 : 1
Activator	Epoxy Activator Flake Glass 1000
Typical Film Thickness	250 – 1000µm DFT depending on system
Theoretical Coverage	1.72 m²/ Litre @ 500µm DFT, allow for loss factors
Method of Application	Brush, roller, or airless spray
Number of Coats	1 to 2
Temperature Resistance	Dry continuous – 80°C
V.O.C	115 gm/ Litre

Drying Information:

	0°C	5°C	15°C	20°C	40°C	45°C
Touch Dry	-	-	-	3 hrs	-	-
Hard Dry	-	-	-	8 hrs	-	-
Overcoating Data – See Limitations						
Substrate Temp.	0°C	5°C	15°C	20°C	40°C	45°C
Minimum	-	-	-	16 hrs	-	-
Maximum	-	-	-	7 days	-	-

Note: A curing temperature below 10°C is not recommended, adequate ventilation should be maintained during application and curing. If over coating times are exceeded, sweep blast or grind prior to re-coating.

Whilst we endeavour to ensure that all advice we give about the product is correct, the information given in this data sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so entirely at his own risk. As conditions of use, method of application and suitability of the substrate prior to painting are beyond our control, no guarantee is implied by the recommendations contained herein. We therefore do not accept any liability whatsoever or howsoever arising from the performance of this product or for any loss or damage arising out of the use of this product. The information contained in this sheet is liable to modification from time to time in the light of experience and ongoing product development programmes. It is the user's responsibility to ensure that this sheet is current prior to using the product

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Surface Preparation:

Abrasive Blast Cleaning and Mechanical Preparation

All surfaces to be coated must be dry, clean, and free from contamination. This product must only be applied to surfaces prepared by abrasive blast cleaning to SA 2½ in accordance with International Standard ISO 8501:2007 and SSPC-SP10. A sharp angular profile of 75 – 100 microns is recommended.

Concrete

Remove all dirt, oils, grease etc. and any loose material. All laitance should be removed by light abrasive blasting. Holes in concrete should be filled with an approved filler.

Application:

Mixing	Material is supplied in two containers as a kit. Always mix a complete kit in the quantities supplied. Once mixed the product should be used within the pot life specified. Stir the base component well with a flat-bottomed paddle or mechanical mixer until product is uniform. Continue stirring and add the entire contents of the activator container. Continue stirring until the mixture is homogeneous. Ensure that sufficient material be mixed so that the product can be applied within its use-able life. The temperature of the mixed product should preferably be above 10°C.	
Mix Ratio	4 part(s) base : 1 part(s) activator by volume	
Pot Life	60 minutes at 25°C	
Brush/Roller	Recommended	
Airless Spray	Tip Range 17-31 Thou. Pressure at the tip should not be less than 160 bar (2000 PSI) Preferably remove in line filters as they will become clogged with packed flake glass. A gloss finish is obtained on flat surfaces where the glass flake orientates horizontally.	
Thinner	SA65 Thinner	Temperature can be used to control viscosity.
Cleaner	SA65 Thinner	For dry paint & equipment
Work Stoppage	Do not allow material to remain in spray equipment after use; thoroughly flush and clean all equipment with **SA65 Thinner**. Once the kit has been mixed, it should not be re-sealed and it is advised that, after prolonged stoppages, work recommences with freshly mixed units	
Clean Up	Clean all equipment immediately after use with **SA65 Thinner**. It is advisable to periodically flush out spraying equipment during the course of the working day. Frequency of cleaning is dependant of upon the amount sprayed, temperature and elapsed time. Work strictly in accordance with the specified pot life of the material.	

Environment:

	Surface Temperature	Ambient Temperature	Relative Humidity
Minimum	10°C*	10°C	No lower limit
Maximum	60°C**	45°C	100%

* Or 3°C above dew point

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Limitations:

- Maximum film build is best achieved un-thinned by airless spray.
- The high level of glass flake prevents satisfactory application of film thicknesses less than 250µm.
- The product will not cure below 5°C.
- The product will chalk and discolour on extended exposure to sunlight.
- Overcoating information is given for guidance only and is subject to local climate and environmental conditions. Consult a Specialized Coating Systems representative for specific recommendations.
- For best results bring the material temperature between 20 – 30°C, unless specifically instructed otherwise, prior to mixing with and application.
- Unmixed material (in closed containers) should be maintained in protected storage in accordance with information given in the STORAGE section of this data sheet.
- Technical and application data herein is for the purpose of establishing a general guideline of the coating application procedures.
- Test performance results were obtained in a controlled laboratory environment and Specialized Coating Systems makes no claim that the exhibited published test results, or any other tests, accurately represent results found in all field environments. As application, environmental and design factors can vary, due care should be exercised in the selection and verification of the performance and use of the coating.

Pack Size:

5 & 20 Litre.

Storage:

- Shelf Life: 18 months minimum at 25°C from date of manufacture. Subject to inspection thereafter.
- Store in dry conditions out of direct sunlight, away from sources of heat or ignition.

Precautions:

For complete safety and handling information please refer to the appropriate Safety Data Sheets prior to using this product.

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