

## SpecFloor Epoxy SF HB GlazeCoat

Solvent free high build epoxy floor coating

A two component, pigmented, solvent free, new generation phenalkamine floor coating designed to be applied between 0.20 to 1.50 mm thick in 1 layer.

### Intended Uses:

SpecFloor Epoxy SF HB GlazeCoat comes as a pigmented or clear solvent free epoxy with excellent self-levelling properties. It is designed as a seamless floor protection coating at thickness between 200 to 1500µm DFT.

SpecFloor Epoxy SF HB GlazeCoat can be used as a primer on less critical surfaces and can be used in combination with non-slip aggregate to achieve anti-skid and non-slip finishes.

At the specified DFT's this product exhibits excellent abrasion, chemical and wear resistance with a high gloss finish for a variety of industrial, residential, and commercial environments.

SpecFloor Epoxy SF HB GlazeCoat will render surfaces protected against fuels, oils, lubricants, grease, and general contamination. It is advisable to inform Specialized Coating Systems of any other exposures prior to specification or application to ensure product suitability.

**SpecFloor Epoxy SF HB GlazeCoat can be used but is not limited to the following areas of application:**

- General industrial floor coatings.
- Warehouses.
- High traffic areas.
- Showrooms.
- General production facilities.
- Chemical manufacturing plants.
- Pharmaceutical facilities.
- Medical facilities.
- Aircraft hangars and maintenance areas.
- Battery, generator, transmission, and pump rooms.
- Food & beverage production areas.
- Vehicle movement areas & showrooms.

### Properties:

- Unmatched gloss retention than standard epoxy coatings (less than 5% after 200 hours QUV exposure compared to 60% against other epoxies).
- Very low colour appearance and beautiful film appearance.
- Flows and self-levels to a level, bubble free gloss finish.
- Can take light traffic after 24 hours & is hard in 72 hours at 20°C.
- Excellent adhesion, mechanical strength, and durability.
- Outstanding flexibility.
- Good chemical resistance.
- Seamless - easy to clean and maintain.
- Provides a pleasing decorative finish.
- Provides cost effective performance for many years.
- Excellent water resistance & can be applied with non-slip finish for wet areas.
- Low viscosity & easy application by brush, roller, or squeegee.
- Most colour stable epoxy flooring, highly resistant to yellowing.
- Early water resistance.
- Cold cure down to 0°C.
- Long pot life.
- Resistant to humidity during curing.

### Floor Coatings

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

## Technical Data:

|                        |                                                              |
|------------------------|--------------------------------------------------------------|
| Colour                 | Pigmented & clear                                            |
| Finish                 | Gloss                                                        |
| Density                | 1.11 Kg/ Litre (Mixed – clear)                               |
| Volume Solids          | 100%                                                         |
| Mixing Ratio (Volume)  | Clear – 1.7 : 1<br>Pigmented – 1.85 : 1                      |
| Activator              | Epoxy Activator SFUL                                         |
| Typical Film Thickness | 0.2 – 1.5 mm per coat                                        |
| Theoretical Coverage   | 2 m <sup>2</sup> / Litre @ 0.5mm DFT, allow for loss factors |
| Method of Application  | Brush, roller, squeegee & pin rakes                          |
| Number of Coats        | 1 – 2                                                        |
| Pot Life               | 25 minutes                                                   |

## Physical Properties: (After 7 days Curing)

|                                |    |
|--------------------------------|----|
| Thin Film Set Time @ 25°C (hr) | 3  |
| Gel Time @ 25°C (min)          | 25 |
| Hardness Shore D               | 75 |

## Drying Information:

|                                           | 0°C                                        | 5°C | 10°C | 25°C    | 30°C | 40°C |
|-------------------------------------------|--------------------------------------------|-----|------|---------|------|------|
| Thin Film Set                             | -                                          | -   | -    | 2 hrs   | -    | -    |
| Hard Dry                                  | -                                          | -   | -    | 24 hrs  | -    | -    |
| <b>Overcoating Data – See Limitations</b> |                                            |     |      |         |      |      |
| Substrate Temp.                           | 0°C                                        | 5°C | 10°C | 25°C    | 30°C | 40°C |
| Minimum                                   | -                                          | -   | -    | 5 hrs   | -    | -    |
| Maximum                                   | -                                          | -   | -    | 30 days | -    | -    |
| Maximum                                   | 7 days or as determined by an MEK Rub Test |     |      |         |      |      |

### Note:

\* A curing temperature below 0°C is not recommended, adequate ventilation should be maintained during application and curing.

## Surface Preparation:

### Concrete

Remove all surface laitance, oil, grease, or any defective concrete that will reduce the bond of the SpecFloor Epoxy SF HB GlazeCoat. The surface to which the SpecFloor Epoxy SF HB GlazeCoat is to be applied must be flat, surface irregularities must be ground down or filled out with PATCHING COMPOUND Cement Mortar or filled with SpecFloor Epoxy SF Scraper Coat.

A light etch, giving the profile of medium grit sandpaper is the ideal surface for the application of Epoxy SF HB GlazeCoat, this can be achieved by light grit blasting, captive blasting or surface grinding.

After all preparation has been completed, ensure dust is removed from the surface. This is best achieved using an industrial vacuum.

It is recommended then to apply Epoxy SF Primer Fast Cure as a sealer coat prior to applying SpecFloor Epoxy SF Scraper Coat or SpecFloor Epoxy SF HB GlazeCoat. Moisture content measured using a Protimeter or Max Doser Instrument must be less than 5% (depending on primer).

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### Cleanliness Essential - Control of Personnel During Coating

The entire surface must be thoroughly vacuumed prior to commencement of the coating. Good housekeeping is essential to achieve high quality floor coating. All tools must be kept clean (free of gelled material) for the duration of the work. Only properly equipped personnel should be allowed on the floor being coated (clean overalls and over-shoes). Avoid dust and breezes.

All other personnel and operations must be 'off site' to prevent contamination onto the floor. It is advisable to have material stocks in excess of the calculated requirements. After completion of the application, the work area should be sealed off and the traffic diverted for the full curing period.

It is recommended to apply Epoxy SF Primer Fast Cure as a sealer coat on all porous or dense concrete surfaces prior to applying SpecFloor Epoxy SF HB GlazeCoat.

SpecFloor Epoxy SF HB GlazeCoat may be applied to metal, wooden and tile surfaces when suitably primed.

### Application:

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mixing      | <p>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.</p> <p>Stir the base component well with mechanical mixer until product is uniform. Continue stirring and add the entire contents of the activator container. Continue stirring until the mixture is homogeneous.</p> <p>Ensure that sufficient material be mixed so that the product can be applied within its use-able life.</p> <p>The temperature of the mixed product should preferably be above 10°C. Higher temperatures result in reduced sag resistance and faster cure</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Mix Ratio   | Mix a full kit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Pot Life    | 25 minutes @ 25°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Application | <p>Starting at the furthestmost point away from the final exit point, pour the mixture onto the floor to be coated. Spread the coating evenly over the surface using a short hair roller or brush.</p> <p>SpecFloor Epoxy SF HB GlazeCoat should be applied in a multi directional (north-south, east-west) motion to ensure proper coating thickness. It should be roller/squeegee applied anywhere between 200 – 300µm WFT per coat depending on system requirements.</p> <p>There is no limitation in thickness for SpecFloor Epoxy SF HB GlazeCoat; however, to achieve proper air release and dry times, system guidelines should be followed.</p> <p>For non-slip systems, apply the first coat and scatter the non-slip aggregate into the wet surface at a rate of 0.5 – 1.0 Kg/ m<sup>2</sup>. This will completely blind the surface. After initial curing the excess non-slip aggregate should be swept off or vacuumed for re-use if needed.</p> <p>The topcoat can then be applied in the same manner as the first coat; however, it should be noted that depending on the coarseness of the non-slip material broadcast into the first coat, the quantity of material on the second coat will be greater than that of the first coat.</p> <p>At 25°C the floor will take light traffic after 16 hours but is still vulnerable to damage for the next 24 hours.</p> |
| Thinner     | Do not add thinners                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

|               |                                                                                                                                                                                                                                                                                            |                           |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Cleaner       | SA65 Thinner                                                                                                                                                                                                                                                                               | For dry paint & equipment |
| Work Stoppage | Do not allow material to remain on application equipment after use, thoroughly flush and clean all equipment with <b>SA65 Thinner</b> . Once the kit has been mixed, they should not be re-sealed and it is advised that of prolonged stoppages, work recommences with freshly mixed units |                           |

### Environment:

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

\* Higher temperatures result in reduced sag resistance and faster cure.

### Limitations:

- The product will chalk on the surface when exposed to sunlight.
- Resistant to strong acids and alkalis, but these will cause colour change.
- 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.
- 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 Litre.

### Storage:

- Shelf Life: 18 months 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.