

Epoxy SF Primer UltraClear

Solvent free universal concrete primer

A two component, solvent free, cycloaliphatic amine epoxy primer, with exceptionally dry film clarity, for use with clear epoxy or polyurethane coatings to enhance the natural look of the underlying surface.

Intended Uses:

Epoxy SF Primer UltraClear is a fast curing, low viscosity epoxy primer intended for use on concrete to create a smooth, bubble free surface prior to application of epoxy or polyurethane floor coatings.

Epoxy SF Primer UltraClear has a very low colour value allowing for completely transparent flooring systems.

Epoxy SF Primer can be applied by squeegee, roller, or spray.

Properties:

- Low viscosity, fast cure.
- Very good resistance to solvents and acids.
- Excellent adhesion to concrete.
- Excellent combination of rapid cure and long pot life.
- Early water resistance.
- Excellent clarity.
- Very good chemical resistance.
- Good flexibility.
- Blush free films.
- No odour, solvent free.
- Easy to mix and apply.
- Can be blinded with sand when using self-levelling epoxies to provide excellent mechanical adhesion.
- No induction time.

Technical Data:

Colour	Clear – Milky in can, dries clear
Finish	Gloss
Density	1.10 Kg/ Litre
Volume Solids	100%
Mix Ratio (Volume)	2.33 : 1 (A : B)
Activator	Epoxy Activator SF 600
Typical Film Thickness	250 – 300µm DFT depending on concrete porosity
Theoretical Coverage	4 m ² / Litre @ 250µm DFT, allow for loss factors
Method of Application	Roller, squeegee, or spray
Number of Coats	1
Pot Life	20 minutes @ 25°C

Physical Properties: (After 7 days curing)

Thin Film Set Time @ 25°C (hr) at 200µm	3.5
Gel Time @ 25°C (min)	25
Hardness Shore D	82 within 24 hr @ 25°C 76 within 24 hr @ 10°C

Floor Coatings: Primers

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Drying Information:

	0°C	5°C	15°C	25°C	40°C	45°C
Thorough Dry	-	-	-	3.5 hrs	-	-
Overcoating Data – See Limitations						
Substrate Temp.	0°C	5°C	15°C	25°C	40°C	45°C
Minimum	-	-	-	3.5 hrs	-	-
Maximum	-	-	-	10 days	-	-
Full Cure	6 days or as determined by an MEK Rub Test					

Surface Preparation:

All surfaces to be treated with Epoxy SF Primer UltraClear should be clean, dry, and free from contaminants.

For new concrete, curing should occur for at least 7 days before any flooring systems are installed. The surface of the concrete will have a weak layer called laitance which will need to be removed in order to avoid delamination and permit acceptable adhesion between the surface and primer.

All concrete should be free of water on the surface. Concrete surfaces should have all surface laitance removed by mechanical means e.g. light abrasive blasting grinding or scarifying and all resultant dust or debris swept away.

Mechanical abrasion of the substrates will cause dusting; therefore, all loose dust should be vacuumed clear before the application commences.

Deep Oils

Deep oils which have not been successfully removed from the concrete will cause coating defects. These surfaces should first be primed with Epoxy WB GP Primer

Application:

Mixing	Epoxy SF Primer UltraClear is a two-component material, comprising of a base component and activator component. The activator component should be emptied into the base component and mixed with electrical mixer at 300 – 500 rpm thoroughly for 2 minutes, being careful not to entrain air, the mixed material must then be transferred to a new container and mixed for a further minute The mixed material should be used within 18 minutes of mixing @ 25°C. this time will be reduced at higher temperatures and extended at lower temperatures.
Application	The mixed Epoxy SF Primer UltraClear should be applied to the prepared surface by stiff brush, squeegee, or roller to give a uniform even coating. On large areas the product can be squeegeed onto the surface and back rolled with a nylon roller to ensure uniform finish. On rough, pitted surfaces the product should be worked into the surface to ensure complete wetting of the substrate. The use of a spiked roller a few minutes after application will assist in de-airing the coating before cure. If the substrate is wet, the primer must be vigorously worked into substrate to ensure best possible penetration. Always apply a test patch

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.
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Environment:

	Surface Temperature	Ambient Temperature	Relative Humidity
Minimum	0°C*	0°C	No lower limit
Maximum	45°C*	45°C	100%

* High temperatures result in reduced sag resistance and faster cure.

Limitations:

- The product will chalk on the surface when exposed 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 Litre.

Storage:

- Shelf Life: 12 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.