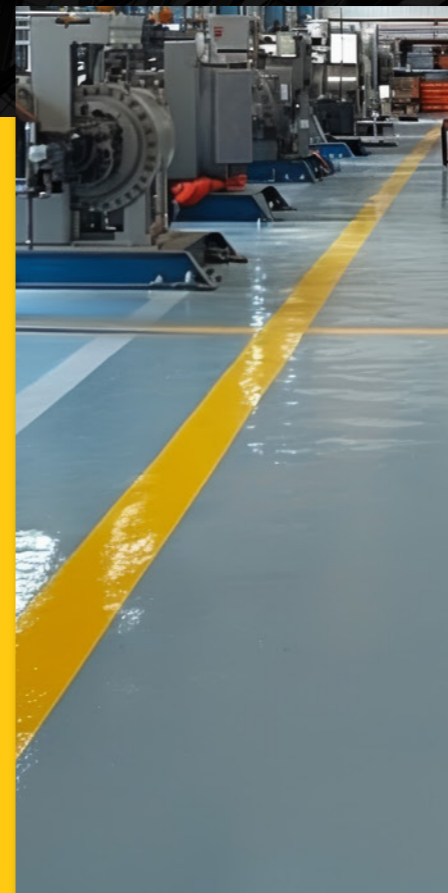
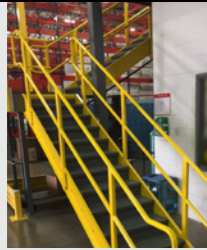


PROTECTIVE & FLOOR COATINGS

PROTECTIVE & FLOOR COATINGS

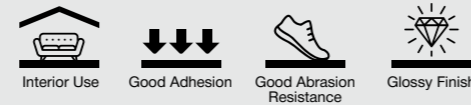


PAINTING SYSTEM



EPOXY BE4 FINISH

For Industrial Floor & Steel Structure



Smart Epoxy BE4 Finish is a two-component amine-adduct cured epoxy finish suitable for steel and cement surfaces where chemical, or abrasion-resistant coating is required. It is recommended for non-immersive surfaces. When applied over steel, it should be used in combination with the appropriate primers as recommended below. If applied over concrete, the surface should be acid-treated prior to application. The newly floor concrete should be dried for more than 28 days before paint application. This epoxy finish is widely used in infrastructure and other heavy-duty industries.

Painting System : **Interior**

Type of Surface	Type of Paint	Dry Film Thickness per Coat (microns)	Theoretical Coverage	Application Method	Overcoating Time
Metal/Floor	1st Coat: Smart Epoxy BE4 Primer	80 µm	6.4 m ² /L	Brush/ Roller /spray	>4 hours
	2nd Coat: Smart Epoxy BE4 Topcoat	50 µm	10.2 m ² /L	Brush/ Roller /spray	>4 hours
	3rd Coat: Smart Epoxy BE4 Topcoat	50 µm	10.2 m ² /L	Brush/ Roller /spray	>4 hours

Remark: Please include an indicative 20%-40% loss factor (depend on the condition of the surface) in the coverage if the floor surface is porous.



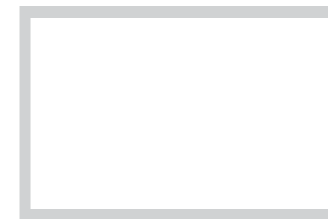
SMART HP 2K PU FINISH 22

SMART HP 2K PU Finish 22 is a robust aliphatic polyurethane top coat designed to deliver exceptional durability, color retention, and a luxurious gloss or satin finish in various colors or clear coatings. It excels in performance and maintains its color even in outdoor harsh weather environments. When applied over steel or concrete, it should be used in combination with the appropriate primers as recommended below. The newly floor concrete should be dried for more than 28 days before paint application.

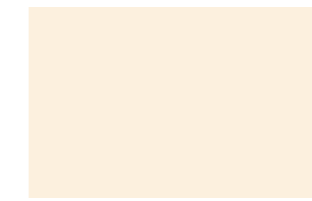
Painting System : **Exterior**

Type of Surface	Type of Paint	Dry Film Thickness per Coat (microns)	Theoretical Coverage	Application Method	Overcoating Time
Metal/Floor	1st Coat: Smart PU22 Primer	80 µm	8.0 m ² /L	Brush/ Roller /spray	>4 hours
	2nd Coat: Smart PU22 Topcoat	80 µm	8.0 m ² /L	Brush/ Roller /spray	>4 hours
	3rd Coat: Smart PU22 Topcoat	80 µm	8.0 m ² /L	Brush/ Roller /spray	>4 hours

Remark: Please include an indicative 20%-40% loss factor (depend on the condition of the surface) in the coverage if the floor surface is porous.



White 9102



Lily 6146



Ash Grey 9093



Venus 6406



Raw Silk 1249



Ivory 4052



Calm Green 6070



Fog Grey 0162



Yellow 0668



Orange 0823



Lime Green 1459



Medium Grey 2034



Golden Yellow 1456



Signal Red 0437



Evergreen 1461



Misty Grey 1457



Native Soil 0124



Neptune 6631



Fern Green 1460



Executive Grey 0104



Indian Red 0882



Bright Blue 0632



Dark Green 1458



Woodgrove 9574



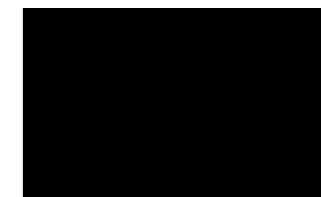
Terra Cotta 1407



Wira Blue 0471



Sanctuary 9584



Black 9103

SURFACE PREPARATION FOR CONCRETE FLOOR



STEP 1

For a fresh coat of paint, it's essential that the concrete surfaces are solid and free from any defective or poorly adhering material. Proper waterproofing membrane should be in place. The moisture content in the new concrete must be below 4% before commencing the painting process.

STEP 2

To prepare the concrete surface, use techniques like shot blasting, scarifying, or mechanical grinding. Repair any damage and fill cracks with a patching compound.



STEP 3

Before applying the coating, make sure to prepare the surface properly. Use a drop sheet or masking tape to protect areas that don't need painting.

STEP 4

Mix the paint following the specified ratio until it is uniform. Be sure to avoid introducing any air bubbles during the mixing process.



STEP 5

Stop painting if relative humidity is more than 85%.

STEP 6

Dispense the blended paint and use a squeegee to distribute it, then use a roller for back rolling. Monitor the pot life and the time it takes for overcoating.

MILD STEEL

STEP 1

To perform blasting to the standard of SA 2.5/ISO 8501-01:2007.

STEP 2

Ensure that surfaces are properly prepared before applying a coating. Use a drop cloth or masking tape to protect areas that don't need painting.

STEP 3

Combine the paint following the provided ratio and add thinner as advised if needed, maintaining the given proportion

STEP 4

Do not paint if the substrate temperature is 3 degrees Celsius below the dew point and the relative humidity is greater than 85%.

GALVANIZED STEEL

STEP 1

Clean away any oil or contaminants on the galvanized steel.

STEP 2

Use sandpaper to sand and roughen the steel surface.

STEP 3

Before painting, ensure the surface is clean and free from dust.

STEP 4

Combine the paint following the provided ratio and add thinner as advised if needed, maintaining the given proportion.

STEP 5

Do not paint if the substrate temperature is 3 degrees Celsius below the dew point and the relative humidity is greater than 85%.

CORRODED, DAMAGE, REPAIR/TOUCHUP

STEP 1

By using wire brush or sandpaper sanding, carry out mechanical surface preparation to the damaged area.

STEP 2

Ensure the surface is clean and free from dust.

STEP 3

Touch up with 1 coat Epoxy BE4 primer @80um per coat, follow by 2 coats of Epoxy BE4 topcoat or PU22 topcoat @ 50um per coat.

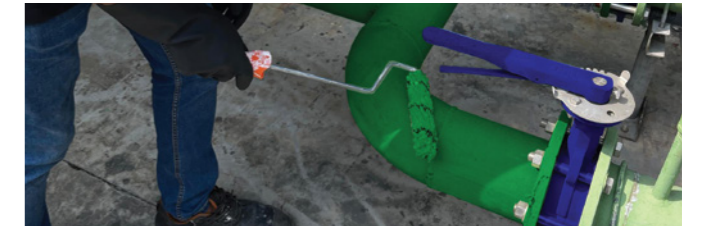
SURFACE PREPARATION FOR STEEL

STEP 5

Perform the painting application according to the paint specification, target to paint the edges and difficult to reach area first. Monitor the overcoat interval accordingly.

STEP 6

For second and subsequent coats, step 3, 4 and 5 will be repeated. If the time allowed between coats has surpassed, roughen the surface with sandpaper before applying additional layers. This will help to improve on the inter-coat adhesion.



STEP 6

Perform the painting application according to the paint specification, target to paint the edges and difficult to reach area first. Monitor the overcoat interval accordingly.

For second and subsequent coats, step 4, 5 and 6 will be repeated. If the time allowed between coats has surpassed, roughen the surface with sandpaper before applying additional layers.

