

KINGDOM FLOORGUARD 400

Product Description:

A two-component amide-cured high-performance epoxy coating that is easy to apply and has good chemical, abrasion, and impact resistance.

Recommended use & Substrate:

The system is designed for steel decks and concrete floors subjected to medium-foot and rubber-tired vehicle traffic. Also suitable for walls and areas of intermittent chemical spills and power washing. Ideally suited for use in hospitals, dairies, warehouses, chemical plants, car parks, and meat & poultry plants.

Product Data:

Finish	: Glossy
Colors	: White & Grey
Gloss	: 35-75
Volume solids	: 65 ± 2 % (ASTM-D2697-86)
VOC	: 300 g/l (NB. – Thinning will affect VOC compliance and volume solids)
Typical thickness DFT	: 80-100 microns
Theoretical coverage	: 6.5m ² /liter @100 microns DFT
Density	: 1.30 ± 0.1 g/cc (mixed)
Flash point	: Part A: 32°C Part B :35°C
Mixing ratio	: 4:1 by volume
Shelf life	: 24 months from the date of manufacturing
Induction	: 10 minutes
time Pot life	: 3 hours @ 25°C
Pack size	: 20 liters (Part A 16L+ Part B 4L)

Film thickness & spreading rate:

Description	Unit	Min	Max
Dry film thickness	micron	80	100
Wet film thickness	micron	123	153
Spreading rate	M ² /l	8.125	6.5

(Spreading rate depends on film thickness applied, type of texture, surface porosity, imperfections, temperature, wastage during painting etc.)

Service temperature : 120°C maximum

Recommended thinner : Kingdom Thinner 10



Drying & curing time

Description	10°C	23°C	40°C
Surface dry	12 Hours	3 Hours	1 Hour
Walk on dry	24 Hours	8 Hours	3 Hours
Dry to over coat minimum	24 Hours	8 Hours	3 Hours
Dried/cured for service	14 days	7 days	3 days

Surface (touch) dry: The state of drying when slight pressure with a finger does not leave an imprint or reveal tackiness.

Walk-on-dry: Minimum time before the coating can tolerate normal foot traffic without permanent marks, imprints or other physical damage.

Dry to over coat, minimum: The recommended shortest time before the next coat can be applied.

Dried/cured for service: Minimum time before the coating can be permanently exposed to the intended environment/medium

Surface preparation:

Remove all oil and grease in accordance with SSPC-SP 1. Manually prepared surfaces should be prepared in accordance with SSPC- SP 3 or SSPC-SP 2. Use Floorguard 200 as sealer coat.

Recommended coating system:

Putty : Epoxy putty
Primer : Kingdom Floorguard sealer 200
Topcoat : Kingdom Floorguard 400

Application:
Application methods

The product can be applied by

Spray: Use airless spray.

Brush: Recommended for stripe coating and small areas. Care must be taken to achieve the specified dry film thickness.

Roller: May be used. Care must be taken to achieve the specified dry film thickness.

Conditions during application:

The temperature of the substrate should be minimum 10 °C and at least 3 °C above the dew point of the air, measured in the vicinity of the substrate. Good ventilation is usually required in confined areas to ensure proper drying. The moisture content in the substrate should not exceed 4 % (by weight). The coating should not be exposed to oil, chemicals or mechanical stress until fully cured.

Storage:

The product must be stored in accordance with national regulations. Keep the containers in a dry, cool, well ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care.

Caution:

This product is for professional use only. The applicators and operators shall be trained, experienced and have the capability and equipment to mix/stir and apply the coatings correctly and according to Jotun's technical documentation. Applicators and operators shall use appropriate personal protection equipment when using this product. This guideline is given based on the current knowledge of the product. Any suggested deviation to suit the site conditions shall be forwarded to the responsible Jotun representative for approval before commencing the work

Health and safety precautions:

Ensure good ventilation during and after application. Do not inhale vapors/spray. In case of contact with skin and eyes, rinse immediately with plenty of water. Avoid eating drinking or smoking during application. Keep out of reach by children.

For environmental safety: please donate the leftover paint and packaging to your local authorized institution for usage or recycling purpose.

Note: Wastes and empty containers should be disposed of in accordance with local regulations made under the control of "Pollution Act and the Environmental Protection Act."

Disclaimer:

The information in this data sheet is given according to the best of our knowledge on laboratory testing and practical experience. Kingdom Paints will not be held responsible for results arising out when applied against specified. We reserve the right to change the given without notice. For more information, visit www.kingdompaints.sa & Users should always consult Kingdom paints factory for specific guidance on the general suitability of this product for their needs and specific application practices.



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Please note that this data sheet supersedes the previous version.

