

Water Based Polyurethane Primer and Coating System

Guardian TOPHD-PRIMER is a solvent free 2 part polyurethane primer for priming concrete prior to the application of Guardian Polyurethane flooring systems. Being water based this product is environment friendly.

USES & ADVANTAGES

Guardian TOPHD-PRIMER is used to prime surfaces to receive one of the Guardian Polyurethane flooring & coving systems.

Advantages include:-

- Solvent free.
- Excellent adhesion.
- Moisture tolerant.
- Low viscosity.
- Coving vertical grade.
- Non toxic.

PROPERTIES

Component:	2 Part	Part A – Base Part B – Hardener
Mixed Density:	1.06 ± 0.02 kg/ltr	
Potlife:	approximate 15 mins.	
Tack free time:	4 hrs. - 6 hrs.	
Hard dry:	12 - 24 hrs.	
Bond strength:	> Cohesive strength of concrete	(ASTM D4541)
Top coat time:	16 - 24 hrs.	

SUBSTRATE CONDITION

Surfaces to be primed must be clean, dry, dust free, free of laitance and all contaminants. Old concrete must be checked for contamination e.g. oils, fats and sugars. Surface preparation should be by shotblasting, scarifying, grinding; hot compressed air for oil contaminated surfaces.

Acid etching must not be used and wire brushing is not recommended. All dust and debris must be removed after preparation by vacuuming. Do not apply materials or floor temperatures below 10°C, temperatures must not fall below 5°C for the first 24 hours after application.

SUBSTRATE PREPARATION

The concrete shall be sound, dry, and free from all contaminants. Capitive shotblasting is recommended or scarifying. All dust, dirt, laitance, curing compounds, oil, grease, existing coatings materials etc. must be removed to create a sound substrate surface. The minimum tensile (pull off) strength shall be 1.5 N/mm². New concrete shall have cured for at least 28 days and incorporate a continuous waterproofing membrane with a compressive strength greater than 25 N/mm². Concrete design shall provide for movement joints, as needed, and provision made for induced joints to allow for any shrinkage of the concrete along defined planes. Anchorage grooves at least 8 mm wide & 8 mm deep should be formed at edges, bay joints, columns, drains, doorways and at regular centres across the floor.

Movement joints must be carried through **Guardian TOPHD-PRIMER** and sealed. Construction joints and cracks may be covered but they will reflect through the **Guardian TOPHD-PRIMER**. Porous floors require 2 coats of primer.



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MIXING

Premix Base (A) until homogeneous before adding Hardener (B). Thoroughly mix part A and B using a slow speed industrial hand drill and helical spinner. Do not mix by hand. The pre-weighted packs must not be split.

APPLICATION

Guardian TOPHD-PRIMER should only be applied by trained specialist applicators. Immediately after mixing apply the material using a short nap roller and or squeegee working well into the surface. For very porous surfaces where two coats are required, the first coat must cure overnight before applying the second, as above.

FINISHING

The topping should be applied within 24 hours of priming. Coatings and self-smoothing systems must be applied when the primer is tack free. Screed and mortars can be applied into the wet or tacky primer; applied to a tack free primer, a sand scatter must be applied to the wet primer to ensure the mortar/screed does not slip when being compacted.

CONSUMPTION RATES

The consumption rate is approximately 5-7 m²/kg depending on substrate porosity, the texture of the surface applied to, method of application and temperature of substrate.

PACKAGING

Pack size is 10 kg/set

STORAGE & SHELF LIFE

Guardian TOPHD-PRIMER can be stored for 9 months from date of manufacturing if in original unopened packaging; stored above ground, under cover, at less than 30°C and out of direct sunlight.

HEALTH & SAFETY

Gloves and eye protection must be worn during mixing and application. Standard precautions should be taken with handling of all chemicals. Consult and follow the product material safety data sheet. Material splashed onto naked skin should be immediately removed with soap and copious water before curing.

TECHNICAL SERVICE

Guardian Coating Service Department is available to assist you in the correct use of our products and its resources are at your disposal entirely without obligation.

QUALITY ASSURANCE (OEM)

ISO 9001: 2015 verified by TUV Nord.
ISO 14001:2015 verified by Lloyd's Register International.

DISCLAIMER

Performance data is achieved testing in accordance with International Standards. Testing by others may result in different results from those published as a result of external factors such as poor sampling, incorrect mixing, varying temperatures, curing, crushing procedures etc. Guardian does not take responsibility nor need to defend others testing that does not achieve the published data. The user must test the products suitability for the intended application and purpose. Guardian reserves the right to change the properties of the product. Site conditions and differences in materials are such that no warranty or fitness for a particular purpose, nor liability can be inferred from the published data sheet, written recommendations or from other advice offered.

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