

THORGRIP HD

TECHNICAL DATA SHEET

DESCRIPTION

THORGRIP HD is a hand-applied, 3-component polyurethane-based, high build slurry system, designed to provide a corrosion and skid resistant system for heavy duty vehicular traffic. Used in conjunction with abrasion and crush resistant aluminum oxide aggregates, the system is high build and suitable for use in high traffic environments.

APPLICATIONS

- Ramps (Internal & External)
- Car Decks
- Linkspans, Pontoons
- Bridge Decks

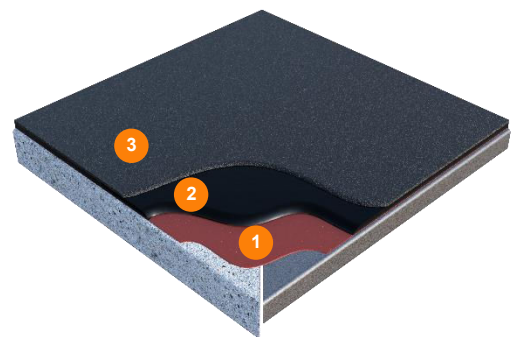
BENEFITS

- Easy-to-use, fast curing hand-applied system
- No noxious odors or VOCs in Base or Top Coats
- Slip and abrasion-resistant surface

BASE COAT COLOUR

Standard color is Tan (Colour Code "750").

SYSTEM BUILD AND COMPONENTS



- 1. Prime Coat:** THORPRIME SP (steel) or THORPRIME EP (concrete)
- 2. Resin Slurry:** THORGRIP
- 3. Aggregate Finish:** 1 to 3mm Aluminium Oxide

COVERAGE RATES

Primer: ~100 µm WFT

Thorgrip: ~3 to 3.5 kg/m²

Aluminium Oxide Aggregate: ~10 kg/m² (residual)

INSTALLATION OVERVIEW

Installation of Thortech International's Thordeck Systems products should be performed by an applicator with documented experience and a quality assurance program.

Refer to the relevant documentation for complete mixing, handling, and installation information.

Project Conditions

Install system when air and substrate temperature meet the requirements of the contract documents or is between 4.4°C (40°F) and 40°C (104°F), whichever is more stringent.

Do not install system if relative humidity is above 85%. Always check to ensure no moisture is present on the deck. Refer to Installation Procedure document for information regarding air/substrate temperature and dew point limitations.

Surface Preparation

Provide clean, dry, and sound metal substrate. Prepare metal surfaces in accordance with SA 2.5 / SSPC-SP10/NACE No. 2 and achieve a 50-75 µm blast profile measured using a Surface Profile Gauge.

Application of Products

Step 1 (Primer Coat):

- Steel: Thoroughly pre-mix/agitate primer before use as pigments can settle during transportation. Dispense primer onto paint tray and apply using a suitable quality roller at the recommended coverage rate of 50 m² per 5 liters. Allow primer to cure until tack-free prior to performing subsequent steps.
- Concrete: Thoroughly pre-mix/agitate primer before use as pigments can settle during transportation. Dispense primer onto deck and spread using a suitable quality squeegee and roller at the recommended coverage rate of approx. 4 m² per kg

Step 2 (Resin Slurry): Pre-mix Part "A" (polyol) to ensure a homogeneous uniform mix is achieved. Pour contents into a suitable mixing vessel. Add the Part "B" (curative) and mix for a minimum of 45 seconds using a slow speed, high torque drill with suitable paddle. Add Part "C" (filler blend) slowly for a further 90 seconds until a uniform mix is achieved.

Dispense mixed material onto substrate and spread evenly at the prescribed rate (dependent upon aggregate selection) using a serrated squeegee (~6mm notch) and allow to self-level.

Step 3 (Aggregate): The selected aggregate should be placed adjacent to the work area. Bags should be open and ready for use. Fully "breach" the resin slurry after approximately 5-10 minutes. On steep gradient ramps, do not cast aggregate too soon to prevent the aggregate from "rolling" out of the system.

System Weights (Approximate Residual)

3 to 5mm System	~13.5 kg/m ²
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Open to Vehicular Traffic

@ 10°C	8 hours
@ 20°C	4 hours
@ 30°C	3 hours