TTR300

Self-Leveling Load-Bearing Epoxy Flooring System

A seamless industrial epoxy flooring system combining a prepared concrete base, compatible epoxy primer and a smooth self-leveling wearing surface. Quartz-sand mortar and fine leveling can be added where the substrate or operating loads require more build-up.

SYSTEM FEATURES

Smooth seamless surface / Engineered quartz-mortar support / Easy routine cleaning / Adjustable floor build-up

TYPICAL APPLICATIONS

Indoor production workshops, equipment assembly, factory corridors, warehousing and dry-service industrial areas. Expected trolley, forklift and impact loads must be checked against the concrete and complete floor design.

SYSTEM DESIGN

Typical **self-leveling finish: 1.5-3.0 mm** on a suitable prepared substrate. The selected primer and any additional mortar or leveling layers are designed separately; adding mortar increases the finished system thickness.

System Layers and Construction Materials

Typical sequence shown from the exposed wearing surface down to the prepared concrete base.

1 Epoxy self-leveling wearing layer
Two-component epoxy finish; selected quartz filler if required

2 Fine putty / pore seal (optional)
Compatible smoothing or sealing coat before the finish

3 Epoxy quartz mortar (optional)
Intermediate epoxy resin with graded quartz for build-up

4 Epoxy primer
Compatible A+B primer for prepared concrete bonding

5 Concrete substrate
Sound, clean, mechanically ground and properly repaired

Thickness note: the 1.5-3.0 mm specification refers to the self-leveling wearing layer. Optional intermediate mortar, pore sealing and substrate correction are additional project-designed build-up.

REFERENCE MATERIAL SCHEDULE

Epoxy primer	A:B = 1:1*	Concrete bonding / sealing
Epoxy intermediate	A:B = 4:1*	Optional quartz mortar binder
Epoxy fine putty	By supplied kit	Optional pore filling / sealing
Epoxy self-leveling coat	A:B = 5:1*	Smooth wearing surface

Mixing note: *A:B ratios are preliminary TUTR internal reference values for each separate material, **not** a universal system ratio. Quartz-to-resin addition is separate from A:B mixing. Follow the label and latest TDS of the actual supplied kit.

RECOMMENDED APPLICATION SEQUENCE

01. Inspect concrete strength, cracks, flatness, moisture and wheel loads.

02. Grind / shot-blast, repair defects, remove grease and vacuum all dust.

03. Mix and apply the appropriate epoxy primer; observe the recoat window.

04. Install quartz-sand mortar and fine pore seal where the design requires.

05. Mix and pour the epoxy self-leveling coat; spread to the specified depth.

06. Use the approved de-aeration method, then protect until full curing.

Reference Consumption and Installation Guidance

TYPICAL MATERIAL PLANNING

Self-leveling finish thickness	1.5-3.0 mm nominal finish; designed with matched filler
Primer reference consumption	Approx. 0.30-0.50 kg/m2, depending on surface profile
Filled self-leveling mixture	Approx. 1.6-1.9 kg/m2 per mm of applied thickness
Example: 2.0 mm finish	Approx. 3.2-3.8 kg/m2 total filled mixture
Quartz mortar and fine putty	Additional quantities based on actual leveling / load design
Material ratios	Use the supplied A+B label; filler addition is separate
Curing and recoating	Follow approved kit TDS and site temperature conditions

DESIGN AND QUALITY CONDITIONS

Indicative consumption is drawn from **common filled epoxy self-smoothing practice** and is used for preliminary material estimation only. Coverage varies with the specific resin / filler formulation, concrete roughness, coat thickness and wastage. Do not treat mixture consumption as resin-only consumption.

Confirm substrate suitability, temperature, moisture, condensation risk and cure time before laying. Heavy static loads, forklift wheel pressure, mechanical impacts and chemical exposure must be evaluated separately. No unverified abrasion, compressive-strength or service-life numbers are claimed for TTR300.

MATERIAL SUPPLY AND QUOTATION

TUTR supplies epoxy primer, intermediate resin, compatible quartz aggregates / putty and a self-leveling epoxy finish, with support for material selection. Provide floor area, expected traffic, substrate condition, required thickness and project location for a material quotation.