

SOLHYDFLOW INDUSTRIAL

Heavy Duty Self-leveling Wear Resistant Topping

SOLHYDFLOW INDUSTRIAL is a heavy duty self-leveling wear resistant topping that provides a flat, smooth and very durable surface with minimum effort, installation time and cost. It is a single component, high strength, non-shrink, regulated setting wear surface using a polymer modified binder system to level and smooth floors. **SOLHYDFLOW INDUSTRIAL** can be poured or pumped (no trowel required) in one single step to thicknesses from 3 mm (1/8") to 20 mm (3/4"). **SOLHYDFLOW INDUSTRIAL** will accept foot traffic within 4 hours and heavy industrial traffic 24 hours after application.

USES

Specially designed fast setting, self-leveling wear surface for the repair and levelling of concrete plant floors that are uneven, rough, damaged, unfinished, frozen or rained on concrete slabs. Specially formulated for heavy duty industrial equipment traffic on concrete floors.

TYPICAL USES:

- Plant floors
- Warehouse and distribution floors
- Rain damaged floors
- Floors damaged by wear
- Parking garage floors (interior)
- Correctional institutions
- Showrooms (Heavy equipment vehicle dealers)

PRODUCT FEATURES

- Very durable and resistant
- Superior bond
- Installable from 3 mm (1/8") to a 20 mm (3/4") thickness
- Non-shrink and non-dusting
- Self-leveling wear surface ideal for pouring and pumping
- Maintains workability for 25 to 35 minutes at 21°C (70°F)
- No sanding or grinding required
- Not a gypsum based product
- Rapid early strength gain
- Minimize shut down time and accelerates the return to service floors
- Yield can be increase with addition of 10 mm (3/8") of special granite stone

SURFACE PREPARATION

CONCRETE FLOORS

Surface must be solid, completely clean, free of oil, wax, grease, sealers, curing compounds, asphalt, paint, dirt, loose surface material and any contaminant that will act as a bondbreaker. Weak concrete surfaces must be cleaned down to sound concrete by mechanical means like Blastrac® or light grinding. Acid etching or chemical cleaning is not acceptable. Joints in the substrate must be reflected through the applied underlayment.

NON POROUS SUBSTRATES

Ceramic tile, terrazzo, quarry tile and stone must be solid, well bonded, clean and free of any bond breaking contaminates such as glazes, wax, oil, sealers etc... Surfaces must be mechanically sanded or Blastracked® until a "profile" is obtained for the maximum bonding of **SOLHYDFLOW INDUSTRIAL**. Vacuum the floor surface, removing all debris, dust and loose material prior to installing the primer.

MATERIAL PHYSICAL PROPERTIES @ 21°C (70°F)

COMPRESSIVE STRENGTH ASTM C109-93 2" (50 MM) CUBES

4 hours	17.0 MPa	2500 psi
1 day	22.0 MPa	3200 psi
7 days	27.0 MPa	3900 psi
28 days	40.0 MPa	5800 psi

FLEXURAL STRENGTH ASTM C348

28 days	6.2 Mpa	900 psi
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TENSILE STRENGTH ASTM C190

28 days	3.6 MPa	522 psi
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ADHESIVE STRENGTH ASTM D4541

28 days	1.4 MPa	200 psi
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HARDENING

Working time	25-35 minutes
Initial set time ASTM C191	60 minutes
Final set time ASTM C191	70 minutes
Curing	self-curing
Foot traffic	4 hours
Heavy Industrial Traffic	24 hours

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PRIMING

ALL SURFACES

All substrates must be clean, dry and primed before **SOLHYDFLOW INDUSTRIAL** is applied. Subfloor temperature must be at least 10°C (50°F). Mix 3.8 L (1 US gal) of a **SOLHYDFLOW PRIMER** with 3.8 L (1 US gal) of clean potable water. That volume will cover approximately 35 m² to 40 m² (350 ft² to 400 ft²) of floor area. **SOLHYDFLOW PRIMER** must be applied evenly with a nylon pushbroom with exploded tips. Do not use paint rollers, mops, or spray equipment. Apply a thin layer leaving no bare spots, puddles or excess primer. Allow to dry to a clear, thin film (usually 2 hours, but less than 24 hours before applying **SOLHYDFLOW INDUSTRIAL**).

VERY POROUS CONCRETE

A 100% solids epoxy primer (**SOLHYDPRIME 100** and broadcast clean No.24 round silica sand to saturation) is recommended on a very porous concrete surface. For more information concerning the method, contact your local **SOLHYDROC** representative.

NON-POROUS SUBSTRATES

Prime the above subfloors using **SOLHYDFLOW PRIMER PLUS**. Apply a thin layer using a pushbroom, covering all areas, leaving no excess primer puddles. Allow to completely dry then apply **SOLHYDFLOW INDUSTRIAL**.

Note: Low subfloor temperatures, or high humidity will slow primer drying. Never place **SOLHYDFLOW INDUSTRIAL** until the primer is completely dry.

ESTIMATING / YIELD

SOLHYDFLOW INDUSTRIAL: 22.7 kg bags reinforced with a polyethylene liner (moisture protection). A 22.7 kg **SOLHYDFLOW INDUSTRIAL** bag mixed with 4.5-4.7 L of clean potable water will cover approximately 2.0 m². When applied on concrete at a 6 mm thickness. For applications greater than 25 mm thickness, add up to 6.8 kg of clean dry 10mm special granite stone per 22.7 kg bag of **SOLHYDFLOW INDUSTRIAL**.

Coverage: Per 22.7 kg (50 lbs) bag.

Nominal Thickness	Approximate Coverage
3 mm (1/8")	4.1 m ² (44 ft ²)
6 mm (1/4")	2.0 m ² (22 ft ²)
12 mm (1/2")	1.0 m ² (11 ft ²)

PRECAUTIONS / RESTRICTIONS

- For interior use only
- Do not use this product if packaging is damaged
- Do not add admixtures (accelerators, etc...) or antifreeze to this product
- Do not use for repairs exceeding 37mm in thickness
- Do not place on surfaces where the temperature is above 32°C (90°F) or below 7°C (44°F)
- Provide protection from wind and direct sunlight during application
- High temperature reduces working time. The use of cold water is recommended
- Do not install over gypsum based surfaces
- Do not apply on light weight based concrete

PRODUCT MIXING

Mix a minimum of 2 bags at a time. For each 22.7 kg bag add 4.5- 4.7 L of clean potable water into the mixing drum. Then add the **SOLHYDFLOW INDUSTRIAL** bags, while mixing at full speed with a paddle mixer attached to a heavy duty 1/2" drill (min. 650 rpm). Always add the product to the mixing water. Mix completely for a minimum of 2 to 3 minutes until mixture is homogeneous and lump free. Do not add any additional water once the homogeneous mix has been obtained.

It is also recommended to use two (2) mixing drums simultaneously, mixing one (1) drum while the other is being poured. In this manner, we avoid slowing down the pours while respecting the 2 to 3 minutes mixing time. **SOLHYDFLOW INDUSTRIAL** can also be pumped affording high productivity and continuous smooth placement. Contact your local **SOLHYDROC** representative for the recommendations concerning specific equipment to be used.

PRODUCT APPLICATION

SOLHYDFLOW INDUSTRIAL will level itself for 25 to 35 minutes at 21°C (70°F). Pour and apply mixed product as soon as possible to floor surface and spread using the **SOLHYDFLOW** Depth Gage Spreader, followed by the **SOLHYDFLOW** Spiked Roller and finish with the **SOLHYDFLOW** Surface Smoother. Cleated shoes must be worn to avoid leaving marks.

SOLHYDFLOW INDUSTRIAL can be applied from 3 mm (1/8") up to a 20 mm (3/4") thickness in one step. For applications greater than 25 mm (1") thickness, add up to 6.8 kg (15 lbs) of clean dry 10 mm (3/8") special granite stone per 22.7 kg (50 lbs) bag of **SOLHYDFLOW INDUSTRIAL**. Contact your local **SOLHYDROC** representative to determine recommended type, size and dosage per bag of aggregate extension.

CURING

SOLHYDFLOW INDUSTRIAL is self curing. The application of concrete cures is not required. **SOLHYDFLOW INDUSTRIAL** is walkable in 3 to 4 hours and will accept floor coverings in 16 hours. All floor adhesives compatible with concrete may be used on **SOLHYDFLOW INDUSTRIAL**.

PACKAGING

SOLHYDFLOW INDUSTRIAL 22.7 kg (50 lbs) bag
Qty: 56 bags per pallet

SOLHYDFLOW PRIMER PLUS 18.9 L pail (5 US gal)
3.8 L (1 US gal) unit
Qty: 4 units per case

SOLHYDFLOW EMULSION 3.8 L (1 US gal) unit
Qty: 4 units per case

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RECOMMENDED TOOLS

The following tools will assure a cost effective, satisfactory **SOLHYDFLOW INDUSTRIAL** installation:

- Mixing Drum
- Heavy Duty 1/2" Drill with Mixing Paddle
- Spiked Roller
- Depth Gage Spreader
- Surface Smoother

CLEANING

Use water to clean all tools immediately after use.

STORAGE

SOLHYDFLOW INDUSTRIAL Store in a dry and tempered area
Shelf Life: 1 year in unopened bag

SOLHYDFLOW PRIMER Avoid freezing

SOLHYDFLOW EMULSION Avoid freezing

SAFETY

See Material Safety Data Sheet.

Contains Portland cement and silica sand. May irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin. In case of contact, flush thoroughly with water. Avoid breathing dust.

NOTE

SOLHYDFLOW INDUSTRIAL is cement based, therefore follow ACI rules of concrete work. Follow good hot and cold weather placement procedures.

PRODUCT NOTES

All applications require the use of **SOLHYDFLOW PRIMER** or **PRIMER PLUS** before proceeding with the installation of **SOLHYDFLOW INDUSTRIAL**. Floor preparation is crucial in obtaining a successful underlayment installation. The contractor is responsible of ensuring that all surfaces are well prepared, extremely solid and stable before proceeding with application of **SOLHYDFLOW INDUSTRIAL**.

SOLHYDROC WARRANTS that the product conforms to its chemical description and is reasonably fit for the purpose stated on its Technical Bulletin when used in accordance with its directions. SOLHYDROC makes NO OTHER WARRANTY either expressed or implied. Buyer assumes all risk in handling.

For Professional Use Only

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