

CONCRETECH

Self Level Overlay (SLO)
Self Leveling Underlayment or Wear Surface

PRODUCT DESCRIPTION

Self Levelling Overlay (SLO) is a fast setting, self levelling concrete topping and underlayment. It is designed for resurfacing interior floors. SLO may be stained or polished to create architectural finishes. SLO needs to be placed over a properly prepared, primed substrate. Light traffic concrete floors may be primed with water based acrylic primer, Concretech Ultrabond Topping Primer and heavy traffic floors may be primed with 100% solid epoxy bonding primer, Concretech Ultrabond 700. SLO is available in white and grey base.

USES

The product can be colored with dyes, acid stains and treated with sealers such as epoxy and urethane based coatings. It can also be used to smoothen and repair interior concrete surfaces before installation of any floor coverings. Ceramic tiles and natural stones can be applied over within 5 to 7 hours after application. Carpet, vinyl sheet, vinyl tile or any other floor topping can be installed 16 to 24 hours after application. Show rooms, retail stores, building entrances, corridors, restaurant floors, and hotel lobby floors can be decorated with SLO with any desired integral color and finish. A smooth, glass like surface will result when finished with diamond polish.

BENEFITS

Can re-surface existing concrete and install treatments to create a decorative concrete finish.

PACKAGING

22.7 kg (50 lb) bags.

LIMITATIONS

For interior use only.

PREPARATIONS

All concrete surfaces to receive SLO shall be clean, free of oil, grease, dirt, efflorescence, drywall residue, excess moisture and foreign matter. Concrete surface should be sound, dimensionally stable, fully cured at least 28 days and free from hydrostatic pressure. Clean with commercial degreaser and rinse with plain water. Allow to fully dry before priming. Fill the holes, cracks with appropriate joint filler. Use patching materials to fill deep cracks or holes. Prime all surfaces with at least two coats of Concretech Ultrabond Topping Primer. Primer should be touch dry between coats and dried clear before applying topping. Always install test areas to ensure compatibility of the SLO with the substrate, bond strength and the performance of primer and topping system. Porous concrete substrates may require epoxy bonding primer such as Concretech Ultrabond 700 for better performance.

INSTALLATION INSTRUCTIONS

Mix one bag of SLO with the required amount of water. Use a proper mixing container, pour 5.25 L (5.55 US qts) clean, cold potable water. Add one bag (50 lb or 22.7 kg) of SLO powder while stirring. Use high speed drill to mix at about 800 rpm for two to three minutes to a homogeneous, lump-free and consistent mud. Pour the mud on the prepared substrate evenly. Do not over mix. Moving the mixer up

and down during the mixing process could cause air entrainment. Air pockets in the mud could shorten the working time and cause pinholing during application and curing. Do not bridge expansion joints and control joints. Pour wet fluid on the substrate, it should flow and level by itself. Shortly after placing the wet mix, use a Gauge Rake to unify to a desired depth and Smoother (Leveller) to obtain an even surface. Working time is 10 minutes. Depending on humidity, it takes 5 hours at 23°C (73°F) to harden and is ready to accept sealer or any other coloring applications. Properly mixed SLO should not show any bleed water or phase separation. Work as a team to provide continuous flow of wet mix in a large area. This will help the uniformity of the surface. Pour SLO in a ribbon pattern while maintaining a wet edge. If a wet edge cannot be maintained, reduce the width of the pour. Avoid walking on the surface for at least 5 hours after installation. Room temperature and humidity play important roles on curing and hardening. Protect the SLO from traffic, dirt and dust until sealer or coating has been applied. Do not drive a fork lift over the surface for at least 48 hours after installation. Full cure is obtained in 10 days at 23°C (70°F).

PROPERTIES

Appearance:	light grey powder/white powder
Yield:	40 sqft/ bag @ 1/8" thickness
Shelf Life:	Shelf life under normal conditions is one year.
Working Time:	10 minutes
Dry Time: Initial Set:	2 hours
Final Set:	3 hours
Open to walking traffic	5-7 hours
Carpet Tile/Stone installation	5-7 hours
Acid Stains/Sealer install	16-24 hours
Compressive Strength:	1 day 2500 psi (17.2 MPa)
ASTM C-109	7 day 3500 psi (24.1 MPa)
	28 day 4500 psi (31.0 MPa)
Flexural Strength:	1 day 700 psi (4.83 MPa)
ASTM C-348	7 day 1100 psi (7.59 MPa)
	28 day 1288 psi (8.28 MPa)
Abrasion Resistance:	
ASTM D-4060	28 day – 0.6 grams loss with Taber H-22 500 gram load, 200 cycles
Volume Change	
ASTM C-157	28 day – 0.06%

Concretech Inc's sole warranty is that our products have been manufactured to meet with our written specifications. The information herein is general information to assist our customers in determining whether our products are suitable for their applications. Our products are intended for sale to commercial and industrial customers. We require customers to inspect and test our products before use and to satisfy themselves as to contents, suitability and applications. Nothing herein shall constitute any other warranty, express or implied, including any warranty of merchantability or fitness for a particular purpose, nor is any protection from any law or patent inferred. All patent and trademark rights are reserved. The exclusive remedy for all proven claims is replacement of our materials and in no event shall we be liable for incidental or consequential damages.

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SAFETY PRECAUTIONS

Caution - Wear protective clothing, rubber gloves, eye protection and dust respirator mask. Prolonged exposure may result in respiratory illness. Keep away from children.

First Aid - Flush contaminated areas immediately. Remove contaminated clothing. Wash hands with soap and water. Flush eyes with clean water or eye wash solution. In all cases seek immediate medical attention.

TECHNICAL SERVICES

Complete technical information is available from Concretech Inc. and its authorized applicators and distributors. In house laboratory testing is available for specialty applications. Technical services available in North America call toll free 1.888.503.6780

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