

ITOS™ SH 300

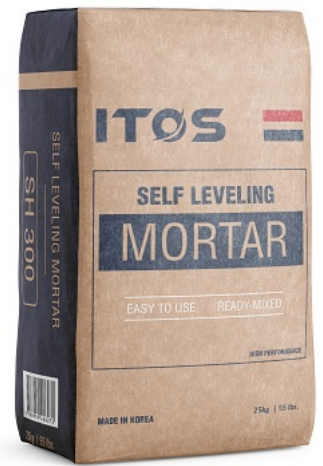
High Performance, Self-Levelling Mortar

Standard Specification

CHARACTERISTIC RATINGS

	Min	Max
Non-Shrink	3	
Self Leveling	5	
Water resistant	4	
Expansion	2	
Early strength	2	

1 = Minimum
2 = Low
3 = Moderate
4 = High
5 = Extreme



MORTAR PRODUCT LINE

DESCRIPTION

SH 300 will form a high-strength abrasion and chemical resistant, self-leveling mortar. Because it is based on Portland cement and latex polymers, and does not depend on gypsum, it may be used indoors or outdoors. SH 300 flows out to produce a smooth resurfacing or leveling compound for structurally sound existing slabs. Each bag requires only the addition of water. Because the mortar is polymer modified and is self-curing, it is designed for applications from ¼" up to 2" thick in one pour, without the addition of aggregate. With aggregate addition it may be applied thicker.

USE INCLUDE

SH 300 is designed to resurface, level and smooth all damaged, spalled or otherwise rough or uneven concrete surfaces. Use it above, on, or below grade-both inside and out. It is designed to be left exposed to traffic as a heavy-duty wearing surface. Use SH 300 on industrial and warehouse floors, parking garages, driveways, utility areas, etc. Use it to finish rough screed concrete slabs and to repair concrete that was rained on during placing. It can even be used as a high strength patch for bad spots on floors without the need to trowel.

■ New Construction

- Unlevel concrete
- Rough concrete
- Rain damaged
- General patching
- Unfinished concrete
- Camber problems
- Rough-screed concrete
- Ramping off skirting boards

■ Refurbishment Projects over

- Terrazzo
- Quarry and ceramic tile
- Old concrete
- Steel decking
- Old wooden floors
- General Patching

PREPARATION

All surfaces must be structurally sound, clean, dry and free from contaminants that would prevent a good bond. Concrete must be fully cured and not subject to hydrostatic pressure. Concrete surfaces should accept water penetration. Smooth concrete surfaces, existing glazed tile, terrazzo, or polished stone should be roughened or scarified. Sheet vinyl must be well bonded and stripped of old finish.

MIXING

Mix the 25kg bag of powder with 4-5 liters. of potable water for at least 2 minutes with ½" heavy-duty type drill with paddle blade or mixer and 500 maximum rpm., until a smooth, lump-free mixture is obtained. Always add the powder to the water. Be sure to keep the blade well below the surface to avoid whipping air into the mix. After mixing, let sit for several minutes, mix again and use within 5-10 minutes. Do not ever add plasticizers, accelerators, retarders, or any other ingredients besides potable water

APPLICATION

After preparation and priming of the surface, pour a thin layer of SH 300 on to the substrate and be sure it is worked into the substrate and in intimate contact with primer. Place the rest of the SH 300 on top of the above while it is still wet. Strike off to desired thickness. SH 300 will self meld during the first 15 minutes at 20°C. This material is self-curing. Apply at a minimum of 1/4" thick. For applications thicker than 2", mix SH 300 with 1/8"- ¼" graded clean, dry pea gravel. The addition of aggregate will diminish the workability of the product.

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CURING

Let cure at least 2 hours at 22°C. Light circulation is allowed after 2 hours. NIVEX will continue to dry and reach excellent solidity after 4 hours. Be advised that the lower the temperature is, the longer the drying time will be. Never try to accelerate drying time. Once the 2-hour period has passed, you may begin your tile installation.

TOOL CLEANING

Clean all equipment and tools with water immediately after use. The hardened material can only be removed by physical scraping.

COVERAGE

(Base weight : 55lb / 25kg)

	Coverage		Thicknesses	
	(m ²)	(ft ²)	(mm)	(in)
Minimum total consumption	1.54-1.6	16.5-17	10	0.4

Coverage rates may vary depending on substrate conditions. Wet and dry thicknesses are always equivalent.

PACKAGING

25 kg Kraft Paper bag (Pallet 64 bags, 1600 kg, protected by plastic bag wrapping)
25.6MT/20'container, 1024 bags/container

SHELF LIFE

The shelf life is 6(min) ~ 12(max) months when stored unopened in dry, normal conditions. Excessive temperature differential and/or high humidity can shorten the shelf life expectancy. Store in a cool, dry area away from direct sunlight.

PRODUCT DATA

Appearance	Powder type
Color type	Grey type
Dry bulk density	~ 1400 kg/m ³
Maximum aggregate size	< 2mm

TECHNICAL DATA

Set Time	Working time	20 minutes
	Flow life	15 minutes
Compressive Strength	4 hours	3000 psi (20.7 MPa)
	1 day	5000 psi (34.5 MPa)
	28 days	6500 psi (44.8 MPa)
Slant Shear Bond Strength	7 days	2100 psi (14.5 MPa)
	28 days	2900 psi (20.0 MPa)

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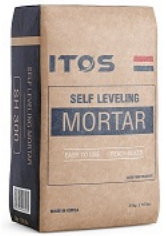
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ITOSTM SH 300

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TECHNICAL DATA

Tensile Strength	7 days	210 psi (1.44 MPa)
	28 days	365 psi (2.51 MPa)
Flexural Strength	1 day	850 psi (5.86 MPa)
	28 days	1900 psi (13.1 MPa)

LIMITED WARRANTY

ITOS Co., Ltd. warrants its materials to be of good quality and, at its option, will replace or refund the purchase price of any material proven to be defective within one (1) year from date of purchase. The above remedies shall be the limit of ITOS's responsibility. Except for the foregoing, all warranties expressed or implied, including merchantability and fitness for a particular purpose, are excluded. ITOS shall not be liable for any consequential, incidental, or special damages arising directly or indirectly from the use of the materials.

SPECIAL OFFER

!!! We can provide it by changing it to the specifications you want.

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