

MASTERTOP® 110 UNDERLAYMENT

Economical, self-leveling, cementitious floor underlayment

DESCRIPTION:

Master Builders MASTERTOP 110 UNDERLAYMENT is an economical, self-leveling, poured-in-place, cementitious, non-structural floor underlayment intended for use over pre-cast and cast-in-place concrete floors.

MASTERTOP 110 UNDERLAYMENT contains fast-setting portland cement and fine aggregate which meets ASTM-C 33 standards. Only water needs to be jobsite-added to obtain the high flow consistency for a self-leveling, flat, smooth installation.

RECOMMENDED FOR:

Use over base concrete substrates for—

- Multi-unit residential structures
- Schools
- Office complexes
- Commercial enterprises
- Hospitals
- Correctional institutions
- Under carpeting, tile, linoleum and hardwood floors
- Leveling rough or rain-damaged concrete substrates

FEATURES/BENEFITS:

- High strength
- Highly fluid and pumpable for fast installation
- Remains workable for more than 30 minutes with slight agitation
- Not a gypsum-based product
- Pourable or pumpable
- Fast turn around occupancy
- Low in-place cost
- Resistant to cracking
- Ready for foot traffic after four hours
- Return to service in 24 hours
- Reduced sound transmission
- Suitable for most carpet and tile adhesives

PACKAGING/ESTIMATING:

MASTERTOP 110 UNDERLAYMENT is packaged in 50 lb (22.7 kg) moisture-resistant bags.

One 50 lb (22.7 kg) bag of MASTERTOP 110 UNDERLAYMENT, when mixed with the appropriate amount of water to produce a self-leveling consistency, will cover approximately 50 ft² (4.6 m²) at 1/8" (3.17 mm) in thickness or 25 ft² (2.3 m²) at 1/4" (6.35 mm) in thickness.

For thicknesses over 1/2" (12.7 mm), add 15 lbs (6.75 kg) of washed, 1/8" (3.17 mm) top size sand per 50 lb (22.7 kg) bag of MASTERTOP 110 UNDERLAYMENT. Flow may be impeded and compressive strengths lowered if extended.

PERFORMANCE DATA¹:

Compressive Strength

(ASTM-C 109) (Mix water; 5.5 qts/50 lb bag)

	Avg. psi
1 day	1200
7 day	2500
28 day	3000

Flexural Strength

(ASTM-C 348)

	Avg. psi
28 day	900

Abrasion Resistance

(ASTM-C 779, Procedure A)

	Depth of Wear, Inches in 28 Days
30 Minutes	0.103
60 Minutes	0.167

Self Leveling Time

15 minutes at 70 °F (21 °C)

Set Time (Hours:Minutes)

(ASTM-C 266)

Initial	2:20
Final	3:05

¹The data shown are based on controlled laboratory tests. Reasonable variations from the results shown may be experienced as a result of atmospheric and jobsite conditions. Mix entire bag of MASTERTOP 110 UNDERLAYMENT when preparing cubes for strength tests.

APPLICATION:

Consult the MASTERTOP 110 UNDERLAYMENT Installation Bulletin or the product bag for details on the mixing and placing of MASTERTOP 110 UNDERLAYMENT.

Master Builders recommends that the user request the service of the local representative for a pre-job conference to carefully plan each step of the installation.

CURING:

No special curing is required for Master Builders MASTERTOP 110 UNDERLAYMENT.

Do not apply sealer if bonding agents for tile, carpeting, etc. will later be applied. Sealers may act as a bond breaker.

LIMITATIONS:

- DO NOT apply MASTERTOP 110 UNDERLAYMENT:
 - over fresh, plastic concrete
 - over wood
 - outdoors or anywhere exposed to rain or snow
 - indoors where exposed to standing water
- For placement over substrates not mentioned on this sheet, consult your local Master Builders representative.
- Use only clean, drinkable water when mixing MASTERTOP 110 UNDERLAYMENT.
- Do not use more than the recommended amount of water.
- Protect from moisture until surface is covered with tile, carpet, etc.

RELATED BULLETINS:

Material Safety Data Sheet -	MASTERTOP 110 UNDERLAYMENT
Installation Bulletin 8I37 -	MASTERTOP 110 UNDERLAYMENT
Specification Bulletin 8S37 -	MASTERTOP 110 UNDERLAYMENT

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