

Description

Crack Suppression Mat is a nylon reinforcement material for gypsum and cement based underlayments. It is designed to eliminate the metal reinforcement such as mesh and lathe in horizontal self-leveling applications. The strong nylon fibers act to bind the underlayment together and hold it in place when cracking occurs. The mat is designed for use in sound control applications using gypsum underlayments, cementitious underlayments or poured lightweight concrete. The material can also be used in non-sound control applications with the same underlayments.

Recommended Applications

- Commercial and residential buildings
- Condominiums, apartments, hotels, loft renovations and sound studios
- Fire rated floor assemblies
- Radiant floor heating systems

Features and Benefits

- Nylon fibers hold cementitious /gypsum underlayment together when cracking occurs
- Geometric structure of the entangled filaments acts to “pre-stress” the cementitious or gypsum underlayment
- Flexibility spreads point-loads and helps to prevent local failures of structure
- Achieves a TCA rated tile floor without crack isolation membrane
- Able to handle the rigors of the construction environment — excellent abrasion and impact resistance
- Roll packaging provides simple time saving handling of material — one roll equals 10 wire mesh sheets
- Reduces installation cost — no seaming or overlap waste, no curling at the edges, no chairs or self furring required — product stays in the middle of the underlayment
- Available with or without self-adhesive zip strip to join overlaps

Technical Data

Physical Properties

Property	English Units	Metric Units
Core Material	Nylon 6	
Thickness	0.4 inches	10.2 mm
Total Weight	14.1 oz/sq yd	478.0 g/sq m
Core Weight	10.9 oz/sq yd	369.0 g/sq m
Durability Characteristics	80% Strength Retention	
Fire Rating	NFPA Class A*	
Smoke Density	70	
Flame Spread	5	
Low Temperature	-100° F	-73° C
High Temperature	250° F	121° C
Fuel & Gasoline Submersion	Stable	

*Will not promote flame spread

Packaging

Property	English Units	Metric Units
Product ID with zip strip	9010-111-MAX1	
Product ID without zip strip	9010-101-CSM	
Core Width	39 in	99.1 cm
Fabric Overlap Width	4 in	10.2 cm
Length	100.0 ft	30.5 m
Area	36 sq yd	30.1 sq m
Roll Diameter	24.0 in	61.0 cm
Gross Roll Weight	36.0 lbs	15.9 kg

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Technical Data

Fabric Properties

Property	English Units	Metric Units	Test Method
<i>Polymer</i>	PA6 & PET		
<i>Fabric color</i>	Grey		
<i>Weight</i>	3.2 oz/sq yd	109 g/sq m	ASTM D 3776
<i>Grab strength</i>	125.0 lbs	556 N	ASTM D 4632
<i>Grab elongation</i>	40%	40%	ASTM D 4632
<i>Trapezoidal tear</i>	40 lbs	178 N	ASTM D 4533
<i>Puncture resistance</i>	35 lbs	155 N	ASTM D 4833
<i>Mullen burst</i>	160.0 lbs/sq in	1102 Kpa	ASTM D 3786
<i>AOS (maximum average)</i>		0.357 mm	ASTM D 4751
<i>Flow rate</i>	185.0 gal/min/sq ft	125 l/sec/sq m	ASTM D 4491
<i>Permittivity</i>	2.5 sec ⁻¹	2.5 sec ⁻¹	ASTM D 4491

Installation Procedures

Applications with Sound Control Mat Installed

Follow instructions for proper installation of Enkasonic Sound Control Matting and Enkasonic Perimeter ISO.

1. Choose the side of the room to work from. If the room is greater in length than 12 feet (3.6m), work from the side that eliminates the most waste.
2. Measure the length needed to extend wall to wall.
3. Cut piece from roll to correct length. Save all scraps for use in smaller areas.
4. Using a standard construction adhesive or two-sided tape, place a bead or strip on the Enkasonic Sound Control Matting at the wall edge where the short ends of the mat will touch the fabric.
5. Place the strip of Crack Suppression Mat and assure that fabric to fabric bond occurs at all strip ends to stop any curling.
6. Assure that the fabric flap lies flat to the flooring surface and is not on top of the core.
7. Working in the direction of the 4 inch (10cm) flap, repeat steps 2 through 4 above. Assure that the nylon core of each strip is as close to the adjacent strip as possible. When using Crack Suppression Mat with zip strip, remove backing paper beginning at the wall and smooth and press second panel of Crack Suppression Mat to achieve a good fabric-to-fabric adhesion.
8. At the end of each roll, remove 4 inches (10cm) of core from the fabric. Place the next strip on top of the adjacent piece of Crack Suppression Mat.

Applications without Sound Control

Repeat the steps above, bonding the Crack Suppression Mat to the subfloor instead of the Sound Control Matting.