

Commercial Product Data Sheet

Product Description

Zono-Patch is a unique mixture of cementitious binders, low density fine aggregates and proprietary additives specifically designed for repair of lightweight insulating concrete roof deck surfaces of all types. It is fast setting, provides resistance to moisture, and provides the ability to feather-edge thin coat applications.

Product Uses

Zono-Patch is specially formulated for repair of all types of lightweight insulating concrete surfaces, including:

- Vermiculite concrete, perlite concrete, & cellular foam concrete

Zono-Patch may be used to fill base ply fastener holes following removal of an existing roof membrane. It also may be used to repair other incidental damage to the insulating concrete surface (divots, gouges, etc.). It is particularly well suited for thin patch repair (bird baths, rough cold joints, etc.) of both new and existing lightweight insulating concrete surfaces.

Product Benefits

- Zono-Patch has an accelerated "set" or rate of strength gain. The repaired surface will accept foot traffic and base ply fasteners and can be covered with new roof membrane within two to four hours of application of Zono-Patch.
- Unlike gypsum compounds, the mixture of cementitious binders used in Zono-Patch make it resistant to moisture from subsequent inadvertent roof leaks or other sources.
- Zono-Patch is specially formulated to allow feather-edged (troweled to zero thickness) patches with predictable bond and resistance to delamination and spalling.

Product Characteristics

Wet Density: min. 65 pcf (1,041 kg/m³)

Dry Density: min. 35 pcf (560.6 kg/m³)

Compressive Strength: min. 300 psi (21.1 kg/m²) @ 3 days

Base Ply Fastener Withdrawal Resistance:
min. 40 lb (18.1 kg)

Plastic Pails Container Weight: 22 lb (10.0 kg) net
Container Yield: 7.0 board feet (16.4 L)

40-lb Bag Container Yield: 13.0 board feet (30.6 L)

Storage and Handling

Zono-Patch contains cementitious binders, which must be kept dry and away from moisture at all times. Failure to protect stored product from moisture will cause the binders to set in the container, rendering the product unusable. Therefore, store the product in a dry location until ready for jobsite delivery and use. On the jobsite, the product must be protected from moisture until it is mixed with water. When stored in a dry location, the product has a maximum shelf life of twelve months.

Current copies of all Siplast Commercial Product Data Sheets are posted on the Siplast Web site at www.Siplast.com.

Pallet: 42 in x 48 in (107 cm x 122 cm) wood pallet

Number of pails per pallet: 42

Number of bags per pallet: 50

Number of pallets per truckload: 20

Mixing Instructions

One container of Zono-Patch requires approximately 3.0 gallons of water (actual quantity of water will depend on desired consistency of the wet slurry). Mix water may be adjusted to control the consistency and handleability of the material during the installation process. Adding more water will make the product more fluid; less water will make it stiffer. Sufficient water should be added to create a wet mix that is easily troweled and finished to a smooth surface.

Always add dry powder to water! Adding water to powdered material will result in an unmixable combination.

Mixing may be accomplished in a mortar mixer or in a plastic pail with a "jiffy" mixer attached to a drill motor. In any case, mix until the wet slurry is of a smooth, lump-free, creamy consistency.

Less-than-full container quantities may be mixed; simply ratio the water accordingly. Multiple container quantities may be mixed using the same concept.

Application Instructions

1. Remove all debris.
2. Remove any deteriorated material down to sound substrate.
3. For improved bonding, moisten the existing lightweight insulating concrete surface with water or a 1:1 dilution of acrylic or PVA concrete bonding agent. The extent of moistening necessary will depend on the nature of the surface being repaired. Very low density, potentially dusty surfaces will require more preparation. If moistening is insufficient, the product will stiffen (from moisture starvation) too quickly to finish.
4. Pump or pour the Zono-Patch into place.
5. Finish to a smooth surface. Trowel finish the feathered edges to a smooth transition to the existing surface in a workman-like manner.

Limitations

Temperature

Zono-Patch must not be installed when the air temperature will fall below 32°F during the first 24 hours after application of the product.

Thickness

Do not apply large areas of Zono-Patch at thicknesses of two inches or more. When conditions require patches of this magnitude, use an appropriate non-accelerated patching material (NVS® Premix or equivalent).

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