

Shallow-Set Anchors

by David Frane



Anchors set too shallow or too close to the edge of a slab or tube will cause the concrete to crack and pop loose, rendering the anchor useless. One solution is Ankr-Tite's *Power-Sert* drop-in anchor, which works in combination with the company's *Inject-Tite* epoxy adhesive to form a high-strength bond in relatively shallow holes and tight spacing patterns. Small overbore tolerances allow pre-drilling through base plate or machinery mounting holes without moving the piece to be attached. And because the anchors hold by friction until the epoxy sets, attachments can be made immediately. According to the manufacturer, *Power-Serts* display higher resistance to seismic loading and vibration than most drop-in anchors. The anchors are threaded at the top to accept bolts ranging in size from 1/4 and 1 inch, with drill depths from 1 3/4 to 9 1/2 inches, and are available in zinc-plated carbon steel as well as 303 and 316 stainless steel. Prices start at about \$1 each for small carbon steel anchors; large-diameter stainless steel anchors cost up to \$20 each.

Contact: Ankr-Tite, 2415 E. 13th Place, Tulsa, OK 74104; 800/343-1264.

All-Weather Roof Patch

Next time you need to make an emergency roof repair in extreme weather conditions, try *Wet/Dry Patch*, part of the *Roof Proof* line of waterproofing products. The rubberized roof cement forms a lasting bond to a variety of

materials, including metal, asphalt, cement, slate, and ceramic tile, and is guaranteed to be waterproof for 20 years. The manufacturer claims the material remains soft longer than ordinary plastic cements, and the glass-fiber reinforcing eliminates the need for additional membranes or tape for patches. The trowel-grade cement will not run or sag in the



hot sun and can be applied to damp surfaces and in cold weather. *Wet/Dry Patch* costs from \$18 to \$22 for a five-gallon pail and is also available in one-gallon containers.

Contact: Gibson-Homans, 1755 Enterprise Pkwy., Twinsburg, OH 44087; 800/433-7293.

Probeless Moisture Detector



Most moisture detectors use probes that must be inserted into predrilled holes. But unless you find the hidden leak on the first few tries, the cure is worse than the disease, and you'll end up with a series of unsightly patches in

the walls or ceiling. One alternative is the nondestructive *Moisture Encounter*, which detects hidden moisture by measuring the resistance between two low-frequency signals transmitted from conductive pads on the instrument's back panel. The electronics can be switched to produce readings for three different classes of material: One scale measures moisture content by weight in wood; a second scale displays readings on a "relative" scale from 0 to 100 ("dry" to "wet") when detecting moisture behind felt paper, wallpaper, and vinyl flooring; a third scale also uses relative readings and is suitable for heavier materials such as plaster, brick, or tile. The *Moisture Encounter* is one of several nondestructive and probe-type moisture meters manufactured by Tramex of Dublin, Ireland.

Contact: Black Hawk Sales, Inc., 28 Pin Oak Dr., Littleton, CO 80127; 303/972-7926.

Structural Steel Roofing

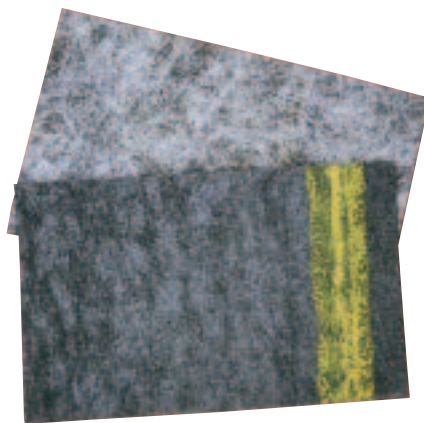


A new metal roofing system serves as both roof covering and structural sheathing, according to the manufacturer. The lightweight Galvalume panels, called *Scan Roof*, incorporate a structural perlin that meets UL-90 wind resistance standards and can support the weight of workers over spans of up to 4 feet. The metal panels are 16½ inches wide and 13 feet 10 inches long, and are installed in interlocking horizontal courses using gasketed screws (an underlayer of felt paper or poly serves as backup protection from leaks when the roofing is applied directly to rafters). *Scan Roof* carries Class A and Class B fire ratings and comes in 22 factory-applied colors that are guaranteed for

20 years against fading. The finished roof resembles a concrete or clay tile installation, and the company makes a complete line of matching ridge, hip, valley, and drip edge components, as well as flat stock for custom profiles. Material costs run about \$230 per square, plus trim and labor.

Contact: Atas Aluminum Corp., 6612 Snowdrift Rd., Allentown, PA 18106; 800/468-1441.

Bubble-Proof Tar Paper



Most builders temporarily protect a newly sheathed roof by applying felt paper. But repeated soaking and drying causes standard felt paper to shrink and buckle, prompting roofers to slit the paper to flatten the bubbles. This practice helps the roofing lie flat, but defeats the purpose of the underlayment.

A new asphalt-impregnated underlayment called R-432 is designed to take the place of conventional 15- and 30-pound felt paper. According to the manufacturer, the fiberglass-reinforced mat with special waterproofing asphalt coating meets ASTM standards for organic asphalt roofing felt, but is more resistant to rot, shrinking, and wrinkling. This means the new underlayment can be left unprotected on a roof for longer periods of time without bubbling. Each roll is sized to cover four squares (432 sq. ft.) and is priced competitively with felt paper.

Contact: Northern Elastomeric, Inc., 50 Pine Rd., Brentwood, NH 03833; 603/778-8899. ■