

Special Products & Practice Showcase

Joint Fillers & Load Transfer Devices

DAYTON SUPERIOR

Dayton Superior's welded dowel assemblies, often referred to as dowel baskets, are made-to-order to meet various project specifications. By maintaining solid relationships with Departments of Transportation, the company can provide customers with unmatched knowledge of each state's paving requirements. Configurations and specifications for welded dowel assemblies can be adjusted based on factors such as paving thickness, lane width, dowel size, dowel coating, dowel spacing, and steel grade. Dayton Superior's manufacturing capacity allows shorter lead times and job-specific production.

—Dayton Superior
CIRCLE 59



W.R. MEADOWS

Eco-Joint is a multi-purpose, new-generation expansion joint filler composed of 100% recycled synthetic rubber. It's flexible, lightweight, chemical resistant, and ultraviolet light stable and won't deform, twist, or break with normal on-the-job handling. It can be sized to meet any installation requirement and is compatible with hot on cold joint sealants. Acting as a bond breaker, it can be used in both interior and exterior environments, including expansion or contraction joints in roadways, airport runways, sidewalks, pavement patch repairs, driveways, flooring, parking lots, plazas, flatwork, patios, and curbs. Its recycled content can help contribute to LEED® credits.

—W.R. Meadows
CIRCLE 60

THE EUCLID CHEMICAL CO.

EUCO QWIKjoint 300 is a fast-setting, semi-rigid polyurea joint filler used for both initial filling and repair of contraction and construction joints. It's formulated for fast strength development and exceptional durability, making it especially suited for filling wide and deep joints or cracks in floors. It supports and protects joint edges from heavy loads and wheel traffic, eliminating spalling of the joint edges, while the fast-setting formula reduces downtime and ensures quick return to service. This zero-VOC content product can help contribute LEED® points toward a project's certification. Primary applications include concrete construction and contraction joints, crack repair, and filling or repair of joints in freezer floors.

—The Euclid Chemical Co.
CIRCLE 61



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NOX-CRETE PRODUCTS GROUP

Nox-Crete offers several solutions to protect slab joints during construction. T-P Joint is a temporary, reusable, premolded joint filler that protects joint shoulder edges from damage during construction and prevents debris buildup, making cleanup prior to joint filler installation much easier and more effective. After application, Clean Shave dries to form a protective barrier film that prevents staining during joint filler installation and reduces chatter during joint filler shaving. Dynaflex 502 epoxy/polyurethane and Dynaflex JF-85 polyurea 100% solids joint fillers are semi-rigid and ideal for use in heavy-duty industrial floors requiring maximum impact resistance. All are part of Nox-Crete's Partner Product line offering guaranteed compatibility with Silcoseal tilt-up cure and bondbreakers and Duro-Nox liquid floor hardeners. These joint fillers are also Green Engineered™ and manufactured using safer raw materials to protect both the applicator and the environment.

—Nox-Crete Products Group
CIRCLE 62



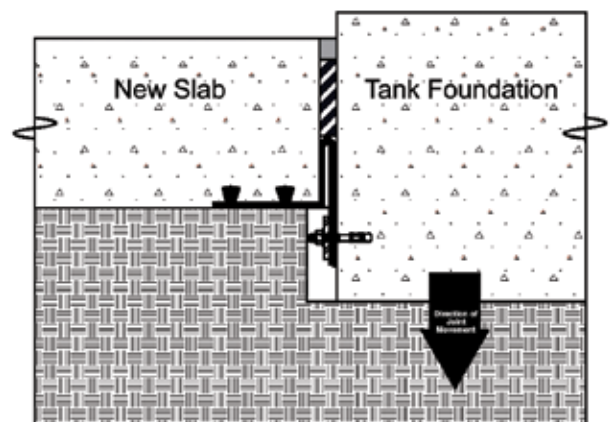
CHEMCO SYSTEMS

CCS™ Grout Polyurea SWL is a fast-setting, 100% solids elastomer with a very high elongation. The self-leveling formula has a 1:1 mix ratio, making it very easy to use. With a long worklife, hand mixes are trouble-free, and it cures quickly even at temperatures as low as -20 °F (-29 °C). It offers superior dry and wet adhesion to concrete and high resistance to tearing. Its primary use is for contraction joints in industrial and commercial floors. It can also be used to fill saw-cut joints and routed cracks or as a fast-setting repair grout by adding sand or aggregate.

—ChemCo Systems
CIRCLE 63

JP SPECIALTIES, INC.

The Earth Shield® JP621L Retrofit Waterstop System is chemically and mechanically adhered to the existing concrete using a chemical-resistant novolac epoxy (VEN500 or VEN1000), stainless steel batten bar, and stainless steel anchor bolts. The waterstop profile is combed along the fastening leg, which facilitates epoxy bond to the profile. The embedded waterstop leg has two large polymer dams that are designed to create a tortuous fluid path and simultaneously perform as anchor points for the new concrete to bond to. The profile has a large, tear-web centerbulb that can move greater than 5 in. (125 mm) without deforming the main body. The thin diaphragm, or tear-web, ruptures under shear stress, allowing the U-bulb to move freely for its entire length when installed in an open joint.



—JP Specialties, Inc.
CIRCLE 64

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MAPEI

Planibond® JF is a two-part, 100% solids, moisture-tolerant, semi-rigid epoxy joint filler. It's self-leveling and comes in a dual cartridge for easy use. The low-odor formulation offers high strengths and can help contribute toward LEED® points. It can be used to fill nonmoving joints in industrial concrete floors, providing ideal sealing protection and support for joint edges. It can also be used as a crack filler for concrete floors. It meets ASTM C881 requirements and USDA specifications for food-processing areas.

—MAPEI
CIRCLE 65



EMSEAL

EMSHIELD DFR2 is a single-unit, fire-rated expansion joint that accommodates high movement. It's made of a fire-retardant-impregnated foam that's precoated on the underside with an intumescent fireproofing material and precoated on the traffic surface with highway-grade fuel-resistant silicone. It's installed into a joint gap that's primed with field-applied epoxy and finished with field-injected silicone sealant bands against the substrates. The result is a single product that can withstand vehicular traffic while handling thermal-, wind-, and seismic-induced movements. It provides a 2-hour-rated fire stop at the sealed joint when that joint runs horizontally and is part of a 4 in. (100 mm) or larger concrete gap. It also offers waterproofing protection of adjacent building materials and occupied spaces below. It's UL 2079 certified.

—EMSEAL
CIRCLE 66

PNA CONSTRUCTION TECHNOLOGIES, INC.

The "strategic reinforcement" design using PNA's tapered plate dowels delivers constructible, serviceable concrete flatwork by minimizing differential deflection, joint spalling, and random cracking without inducing restraint, ensuring superior load transfer at the joints. By removing steel from the mid-panel and placing it at the joints—where it's needed most—the strategic reinforcement design uses 72% less steel compared to nominal reinforcement. PNA tapered plate dowels are key components of the strategic reinforcement design. The Diamond Dowel® System and PD3 Basket® assembly both are proven to deliver reliable load transfer by ensuring consistent amounts of steel at the joints through their tapered shape and construction tolerances. The tapered plate dowels improve joint stability and reduce restraint, minimizing joint spalling, random cracking, and dowel erosion.

—PNA Construction Technologies, Inc.

CIRCLE 67

