

S-STITCH

NEW!

by AquaBond®

PATENT PENDING

4 Simple Components
100s of Configurations

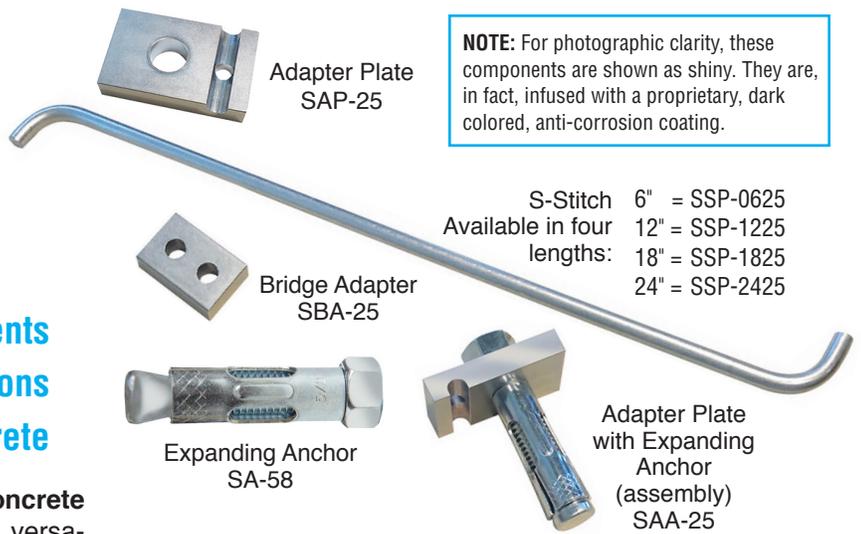
Permanently repairs most cracked concrete

AquaBond's new, patent-pending **S-Stitch Concrete Crack and Fracture Repair System** is far more versatile and faster to install than other concrete repair staple or stitch systems. You'll save tons of time by grinding shallower and narrower channels than old-style steel-bar staples require. You can even double up, or criss-cross S-Stitches for amazing resistance to future movement!

S-Stitch staples are embedded into cracked concrete and encapsulated in anchoring epoxy. Spanning the crack or fracture, a series of S-Stitches, installed per instructions, restores, and even improves, the strength of the concrete.

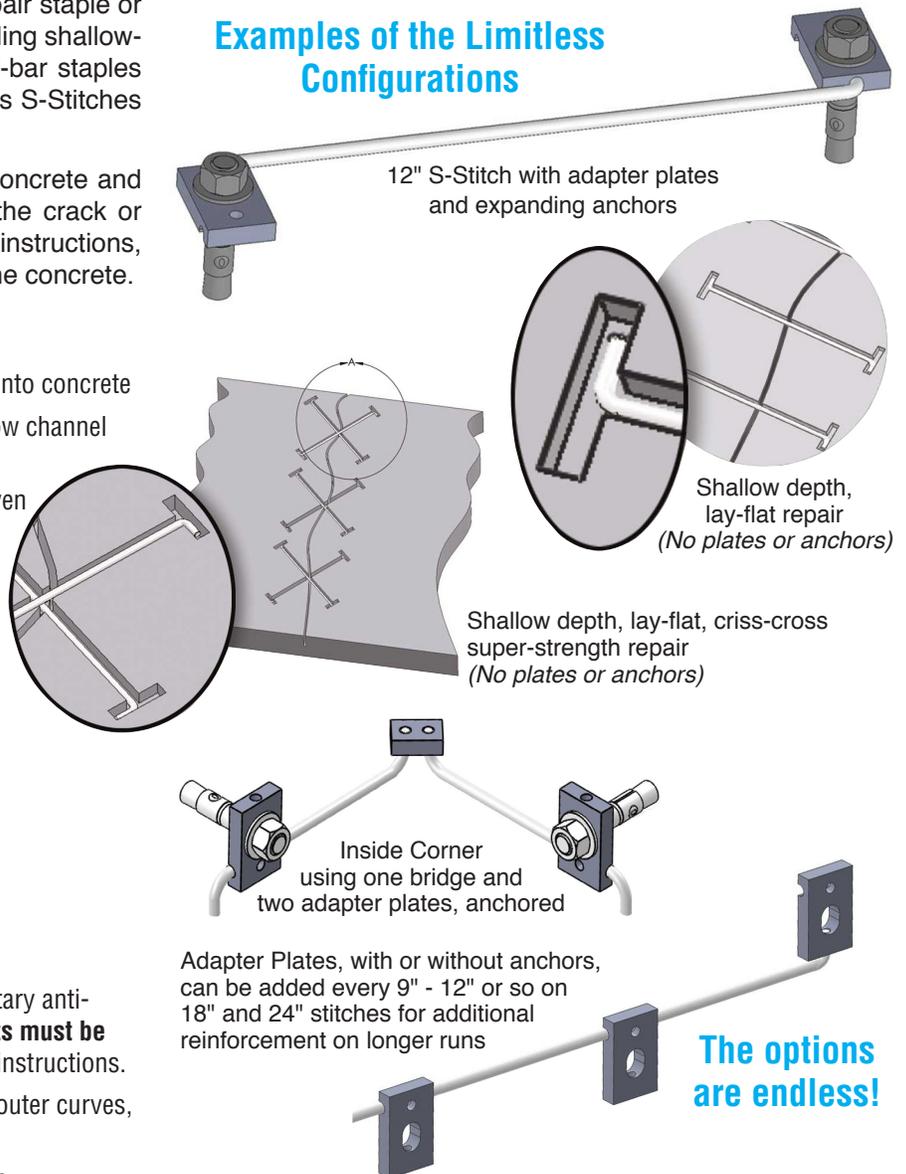
Features and benefits

- Revolutionary new S-shaped stitch system keyed into concrete
- Lay-Flat "S" design can be installed in a very shallow channel and is much less invasive than traditional stitches
- Install as a hook, or in lay-flat position. You can even criss-cross them for incredible concrete stability
- Saves time and labor because of shallower installation. Less grinding. Deeper grinding and drilling is only required where anchors are located
- AquaBond AE-2200-250 High Strength Anchoring Epoxy secures components permanently into the concrete
- Can be installed with or without anchors. (anchors should be used when concrete is over 5" thick)
- Incredibly strong, 1144 Stress Proof® cold rolled steel stitches (see specifications)
- S-Stitch components have a dark colored, proprietary anti-corrosion coating. **For best results all components must be encased in anchoring epoxy when installed**, per instructions.
- Repairs vertical, horizontal, diagonal and inner or outer curves, corners, steps, love seats, etc.
- Larger length and diameter S-Stitches are available
- Repairs structural cracks in any concrete surface
- More versatile than any other system
- Double modulus by stacking
- Guaranteed 5-years against manufacturer defects



NOTE: For photographic clarity, these components are shown as shiny. They are, in fact, infused with a proprietary, dark colored, anti-corrosion coating.

Examples of the Limitless Configurations



The options are endless!

Encapsulate all S-Stitch components in AquaBond's AE-2200-250 Anchoring Epoxy for a super-strength, permanent installation.





Technical Summary

NOTE: For a rigid, permanent, full-depth repair, all S-Stitches and accessory plates must be fully encapsulated in our AE-2200-250 Anchoring Epoxy.

To correct cracking of a beam or slab the American Concrete Institute (ACI 224.1R-07) outlines post-tensioning anchor stitching as desirable to strengthen the fractured area. As with any repair, the extent and cause must be identified and addressed.

The AquaStitch S-Stitch technique uses Stress Proof®, cold rolled 1144 steel rods, anchored into solid concrete to bridge the crack and stabilizing force across the fracture.

The S-Stitch by AquaBond® concrete repair staples bridge the crack by extending into the unaffected, solid reinforced concrete. Future movement is prevented by embedding the 115,000 lb. tensile strength rod in high-strength anchoring epoxy along the length of the S-Stitch.

Other integral components of the S-Stitch system are two machined steel components — the “Stitch Adaptor Plate” and the “Stitch Bridge Connector.”

The Stitch Adaptor Plate enables anchoring of the S-Stitches anywhere along a “run” and also serves to pin down, align and intersect S-Stitches in unlimited configurations to achieve the best repair of any cracked concrete as needed.

The Bridge Adapter lets you interlock a run of stitches and provides an integral terminal at which a continuation, corner or direction-change can be accomplished.

A hole in the Stitch Plate Adaptor accepts the custom expanding anchor stud. When the nut on the anchor is tightened, the anchor expands, locking the S-Stitch permanently into the concrete.

Once the S-Stitches are anchored into the structural sub-concrete with Anchoring Epoxy and Expanding Anchors, fewer loads are exerted on the weaker surface and are transferred into actual reinforced areas beneath.

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Performance

Technical Specifications:

Description: Engineered structural system to stitch or staple fractures in reinforced concrete

Device: S-Stitch by AquaBond®

Installation Spacing: 1 stitch per foot, or as needed per engineer's specifications (can vary depending on crack severity)

S-Stitch Tensile Strength: 115,000 psi

Anchor: 2-1/4" x 5/8" custom, expanding sleeve type

S-Stitch dimensions: 1/4" thick. Available in four lengths: 6", 12", 18" and 24"

Hook Length: 1" +/-

Bridge Length: 6" minimum, can be extended to longer repairs with longer S-Stitches and use of Bridge Adapter and Adapter Plates

Expanding Anchor Length: 2-1/4" overall.

Bridge Connector Material: Precision machined, case hardened 1018 steel

S-Stitch Material: 1144 StressProof® cold rolled steel

Channel: Saw Cut Approx. 14" long x 1-3/8" wide x 1-1/2" deep

Corrosion Resistant: S-Stitch's components have a proprietary anti-corrosion coating. All components must be encased in anchoring epoxy during installation, per instructions

Tools:

- 4" Masonry Saw, Chaser Blade, Hammer Drill, 5/8" Masonry Drill Bit
- 3/4" Socket Wrench, Standard caulking gun, Shop Vacuum
- AquaBond AE-2100-250 anchoring epoxy

Polyurethane Expanding Foam Kit

Our AquaBond DMK-377 Polyurethane Foam Injection kit is the perfect companion to the S-Stitch system. The white, waterproof foam expands to 25-times its volume and permanently fill cracks all the way through creating a long-lasting, watertight seal in concrete walls, foundations, pool & fountain walls and other barriers.



The S-Stitch system is Patent Pending

StressProof® is a registered trademark of Niagara LaSalle Corporation