Specifications and Installation Instructions
Carbonbond Crack Repair
Hydro Sealant
HYP901E

INTECH®
ANCHORING
SYSTEMS

HYDRO SEALANT
HYP901E

HYP901E is a single component hydrophilic polyurethane chemical grout. When it comes in contact with water it quickly expands to form a tough flexible closed cell foam which bonds extremely well to concrete. When cured it becomes an extremely tough and flexible barrier against water penetration.

MANUFACTURER

Company:
Intech Anchoring Systems
8250 Bunkum Rd,
Caseyville, IL 62232
Telephone: 800-223-7015

BENEFITS

• Single component [no catalyst required]
• Extremely flexible
• Very tough foam
• Up to 700% expansion
• Penetrates concrete pore structure for superior bond

PROPERTIES OF HYP901E HYDRO SEALANT

Appearance	Amber Liquid
Viscosity	600 cps
Weight Per Gallon	9.1 lbs
Induction Time	20-30
Cure Time	4-6 minutes

Cured Foam Test Results		
Tensile Strength	ASTM D-1623	380 psi
Bond Strength	ASTM D-1623	250-300 psi
Elongation	ASTM D-1623	400%
Shrinkage	ASTM D-1004	Less than 10%
Tear Resistance	ASTM D-3574	21 lbs./ Inch
Density	ASTM D-3574	494 kg / m3

Results are based on foam cured under pressure. Properties may vary depending on job conditions.

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HOW TO USE

Surface Mount Port Application:
The surface of the crack should be cleaned and roughed with wire brush or wheel to allow for better surface seal bond to concrete. Prepare a small batch of epoxy surface sealer material. Apply a thin bead of material around the perimeter of the ports' base. Center the barrel of the port over the crack and press into place. Space ports approximately every 6" along crack. Mix additional surface seal material and seal off the crack and around the base of each port. Apply approximately 1/8" thick layer of material by 3" wide over the center of the crack. Prior to injecting HYP901E, flush crack with clean water beginning at the top port. Remove tail plug from the empty cartridge and fill with clean water. Leave enough room in the cartridge to reinstall the tail plug. Beginning at the bottom port, inject the HYP901E with steady pumps. Pump until resin appears at the next port above. Work your way up the wall until you have reached the top.

DRILL PORT PROCEDURE

1. Drill injection port holes at a 45° angle to intersect the crack midway through the depth of the structure. These holes should be approximately 6" to 24" apart depending on the width of the crack.
2. Clean the holes out by injecting water through a wand that will reach to the back of the hole.
3. Insert packer or bang in port. Remove the zerk tips from all of the ports except the first one to be injected.
4. Inject clean water into port at 250 psi min. Air and water will begin to flow out of the crack and ports above. Repeat this process for each port.
5. Remove the zerk tips from all ports except the first one to be injected. Be sure to use a different pump or flush the pump thoroughly with solvent.
6. Starting with the first port pump the HYP901E at 250 psi. Increase the pressure as needed to gain full penetration. Always use the lowest pressure possible to inject the crack. Never exceed maximum safe operating pressures.
7. Once the material has fully penetrated the crack or begins to flow out of the next port, put the zerk tip on the next port and begin pumping. Repeat this procedure until the entire crack has been pumped.
8. Flush out your pump at the end of the day. Material left in the pump may cure overnight and ruin the pump.
9. Contact Intech Anchoring Systems for further application instructions.

Precautions:
Use safety glasses or chemical goggles and gloves when handling materials. Avoid breathing vapors. Vapor overexposure may cause respiratory irritation, central nervous system depression, and allergic reaction. Use adequate ventilation. In case of skin contact, remove any contaminated clothing. Wash area of contact with soap and water. For eye contact, flush immediately with plenty of water for at least 15 minutes. Contact physician immediately.

STORAGE

Materials must be stored in dry conditions below 80°F. Under proper conditions. The shelf life is 6 months in unopened containers.

PACKAGING

22 oz. Dual cartridges

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