

WEBAC 4110

LOW VISCOSITY EPOXY RESIN FOR STRUCTURAL REPAIR

WEBAC 4110

TYPE OF MATERIAL

WEBAC 4110 is a 100% solids (solvent free), high modulus, non-shrink two component epoxy injection resin with outstanding features.

- **Approved for Drinking Water Contact**
- **High Strength**
- **Low Viscosity**

RANGE OF APPLICATION

- **Crack Injection**
- **Welding Cracked Concrete**
- **Bolt Grouting**
- **Plate Grouting**
- **Delaminated Slab Welding**
- **Repairing Wood Beams**

WEBAC 4110 is designed for the injection of cracks and voids in concrete. Due to the low viscosity of the material good penetration is achieved even at lower injection pressures. WEBAC 4110 has superior water displacing properties and bonds well in moist conditions.

Due to the high tensile and compressive strength of the cured product, WEBAC 4110 is ideal for structural repair.

WEBAC 4110 is a product of the WEBAC epoxy injection resin line and to achieve best results a combination of several products may be recommended in some applications.

PROCESSING

WEBAC 4110 is composed of two components. The mixing ratio by volume is 2:1 (A:B).

WEBAC 4110 may be filled with additives, such as silica flour, sand or thixotropic fillers. A mixing ratio of 1:1 (WEBAC 4110 : Additives) should not be exceeded.

Physical properties of the modified product may change.

WEBAC 4110 can be processed with single component equipment but two component equipment is recommended for extensive injection work.

The gel time of premixed material is determined by the quantity of the batch and the temperature. Since the reaction of the epoxy resin produces heat, a large batch is likely to react much faster than a small quantity of material. This fact should be closely observed by the user of single component equipment to prevent premature reaction in the pump and grout line system. If reaction of the batch occurs while pumping, immediately shut down the machine and flush with a cleaner to avoid built up and clogging of the equipment.

MAINTENANCE OF EQUIPMENT

Remove all excess sealant and any smears. Tools and mixing equipment are best cleaned immediately after use. WEBAC provides R70 Pump Flush, a solvent free, non-flammable, non-hazardous cleaner. Xylol, Toluol, Acetone and M.E.K. can be used if not in conflict with regulations on jobsite. Circulate cleaner through pump for several minutes. Caution! Some cleaners are combustible.

PRECAUTION

While working with WEBAC materials safety goggles, gloves and safety clothing should be worn at all times. Also observe container labels, MSDS, and instructions in the WEBAC Product Catalog. In case one of the components comes in contact with the skin, wash thoroughly with soap and water. Adequate ventilation in volume and pattern should be provided in working area. Further protection: emergency showers and eyewash stations.

STORAGE

Good storage stability of unopened containers at temperatures between 15 - 30 C (58 - 85 F). Store indoors.

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TECHNICAL DATA	Comp. A	Comp. B	4100 Catalyst (optional)	
Form / Color	Clear	Clear	Clear	
Solids	100%	100%	100%	ASTM D 1010
Density, g/ml	1.14	0.93	0.98	ASTM D 3800-79
Mixing Ratio by Volume	2 parts	1 part	5% max.	
Viscosity, cps	800	80	30	
Packaging	2.5 Gal	1.25 Gal	0.5 Gal	
Viscosity mixed, cps	400-500			
Gel Time (77 F)	65-80 min.			
Gel Time (77 F) +5% Cat.	35-45 min.			
Storage	Good storage stability for unopened containers at 15 - 30 C 58 - 85 F. Store indoors.			
Cured Product				
Compressive Strength, psi	15,100 ASTM D-695			
Tensile Strength, psi	7,600 ASTM D-638			
Bond Strength, psi	5,100 ASTM C-882			
Slant Shear Strength, psi	5,700 ASTM C-882			
Bond Strength				
Concrete	Crack in Concrete			
Shrinkage	Passes ASTM C-883			
ASTM C-881-87				
TYPE I, II, IV, V, GRADE 1,				
CLASS B & C				
Epoxy Resin Adhesive				
Drinking Water Approved				
Appearance	Yellowish-Clear			
Toxicity	Essentially Non-Toxic in Cured Form			
Resistance to Chemicals	Resistant to Most Organic Solvents, Mild Acids, Alkali and Micro Organisms			



PRODUCT WARRANTY: WEBAC AMERICA CORP. PRODUCTS ARE WARRANTED UNDER THE FOLLOWING POLICY:
 ALL RECOMMENDATIONS, STATEMENTS AND TECHNICAL DATA HEREIN ARE BASED ON TESTS WE BELIEVE TO BE RELIABLE AND CORRECT, BUT ACCURACY AND COMPLETENESS OF SAID TESTS ARE NOT GUARANTEED AND ARE NOT TO BE CONSTRUED AS A WARRANTY EITHER EXPRESSED OR IMPLIED. USER SHALL RELY ON HIS OR HER OWN INFORMATION AND TESTS TO DETERMINE SUITABILITY OF THE PRODUCT FOR THE INTENDED USE AND USER ASSUMES ALL RISK AND LIABILITY RESULTING FROM HIS OR HER USE OF THE PRODUCT. SELLER'S AND MANUFACTURER'S SOLE RESPONSIBILITY SHALL BE TO REPLACE THAT PORTION OF THE PRODUCT OF THIS MANUFACTURER WHICH PROVES TO BE DEFECTIVE. NEITHER SELLER NOR MANUFACTURER SHALL BE LIABLE TO THE BUYER OR ANY THIRD PERSON FOR ANY INJURY, LOSS OR DAMAGE DIRECTLY OR INDIRECTLY RESULTING FROM USE OF OR INABILITY TO USE THE PRODUCT. RECOMMENDATIONS AND STATEMENTS OTHER THAN THOSE CONTAINED IN A WRITTEN AGREEMENT SIGNED BY AN OFFICER OF THE MANUFACTURER SHALL NOT BE BINDING UPON THE MANUFACTURER OR SELLER. WAC200301-W4110