

WEBAC 1403

FLEXIBLE POLYURETHANE INJECTION RESIN

WEBAC 1403

TYPE OF MATERIAL

WEBAC 1403 is a low viscosity two component hydrophobic resin based on a MDI (methylene-diphenyl-isocyanate) polyurethane. The product is 100% solvent free and 100% solids. The gel-time of the product can be adjusted by adding a certain percentage of WEBAC 1400 catalyst. WEBAC 1403 is approved for drinking water contact.

RANGE OF APPLICATION

- Injection into Wet and Dry Structures
- Hairline Crack Injection
- Sealing Concrete Cracks & Joints
- Sealing Concrete Construction Joints
- Brick Construction
- Waste Water Tanks
- Drinking Water Reservoirs
- Sewers, Manholes, Utility Boxes, etc.
- Tunnels, Dams
- WEBAC 2000 Injection Tube System

This high-grade and constant-volume polyurethane resin is a universal injection resin designed for application in wet and dry cracks. Unlike water-activated materials WEBAC 1403 does not need water for the reaction. Due to its low viscosity and good penetration properties, WEBAC 1403 is recommended for the injection of hairline cracks. An important property of the very flexible material is the adhesive strength to concrete which is typically higher than the tensile strength of the product. The good adhesion combined with the flexibility of the material assures that the repaired concrete will not crack again. The cured resin is of a constant volume and it is essentially not effected by water or dryness. WEBAC 1403 does not shrink or swell.

WEBAC 1403 may slightly foam in contact with water when applied without pressure. Pressure injection will suppress foaming action and material will cure to a dense and flexible sealant.

WEBAC 1403 is non-corrosive towards steel and is safe for use in combination with foils and joint strips. The material may be used in combination with WEBAC 151/157 water-activated foams.

WEBAC 1403 is a product of the WEBAC polyurethane injection resin line and to achieve best results a combination of several products may be recommended in some applications.

PROCESSING

WEBAC 1403 A and 1403 B are supplied in separate containers. WEBAC 1400 catalyst is available

to allow adjustment of gel-time. The mixing ratio by volume is 1:1 (A:B). WEBAC 1400 CAT is not a mandatory component of the cured product. It has been designed for the applicator who needs to shorten the gel time.

WEBAC 1400 CAT USAGE

The gel time is adjustable from several hours to approximately 20 minutes by using WEBAC 1400 CAT. Up to 5% of catalyst may be added to the mixture to achieve the shortest gel time. (see diagram on backside)

Example of catalyst usage:

2 gal mixture (7.6 liters)

1% = approx. 2.5 FL OZ. or .07 liters

5% = approx. 12 FL OZ. or .35 liters.

Observe temperature and humidity of the environment since both determine the pot-life of the premixed batch. Do not mix more material than the amount that will be pumped within reasonable time. Rule: High temperatures and high humidity - less accelerator. Metric measuring cups are available to simplify mixing procedures.

It is essential for all equipment to be dry. Avoid any moisture contact with the mixture to prevent premature reaction of the product. 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.

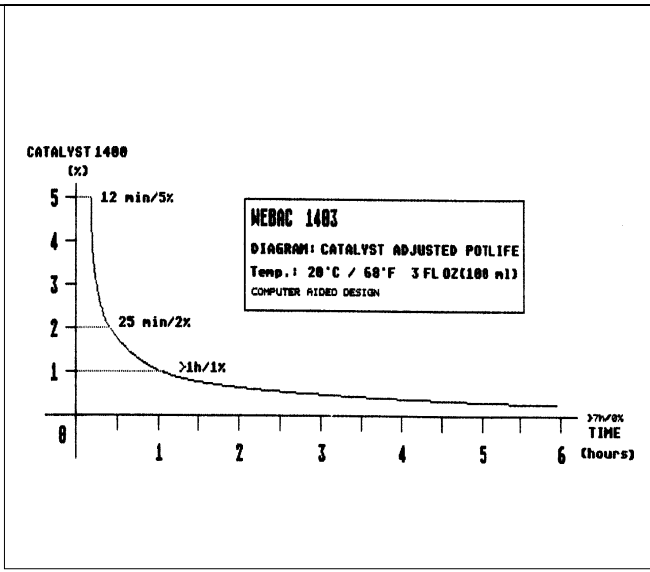
PRECAUTION

Protect your health! While working with WEBAC materials safety goggles, gloves and safety clothing must be worn at all times. While injecting, a full face shield is strongly recommended. Spills and blow-outs do happen! 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. Provide adequate ventilation in volume and pattern in working area. Further protection: emergency showers and eyewash stations.

WEBAC 1403

FLEXIBLE POLYURETHANE INJECTION RESIN

TECHNICAL DATA																																	
	<table border="0"> <tr> <td>Comp. A</td> <td>Comp. B</td> <td>1400 CAT</td> <td></td> </tr> <tr> <td>Appearance</td> <td>Clear</td> <td>Dark Brown</td> <td>Clear</td> </tr> <tr> <td>Solids</td> <td>100%</td> <td>100%</td> <td>100%</td> </tr> <tr> <td>Density, g/ml</td> <td>1.02</td> <td>1.14</td> <td>1.16</td> </tr> <tr> <td>Flash Point, C / F</td> <td>156/313</td> <td>180/356</td> <td>165/335</td> </tr> <tr> <td>Viscosity, cps</td> <td>60-70</td> <td>80-90</td> <td>50</td> </tr> <tr> <td>Mixing Ratio by Volume</td> <td>1 parts</td> <td>1 part</td> <td>5% max.</td> </tr> <tr> <td>Packaging</td> <td>5 Gal</td> <td>5 Gal</td> <td>0.5 Gal</td> </tr> </table>	Comp. A	Comp. B	1400 CAT		Appearance	Clear	Dark Brown	Clear	Solids	100%	100%	100%	Density, g/ml	1.02	1.14	1.16	Flash Point, C / F	156/313	180/356	165/335	Viscosity, cps	60-70	80-90	50	Mixing Ratio by Volume	1 parts	1 part	5% max.	Packaging	5 Gal	5 Gal	0.5 Gal
Comp. A	Comp. B	1400 CAT																															
Appearance	Clear	Dark Brown	Clear																														
Solids	100%	100%	100%																														
Density, g/ml	1.02	1.14	1.16																														
Flash Point, C / F	156/313	180/356	165/335																														
Viscosity, cps	60-70	80-90	50																														
Mixing Ratio by Volume	1 parts	1 part	5% max.																														
Packaging	5 Gal	5 Gal	0.5 Gal																														
Cured Product																																	
Hardness, Shore D	20-30																																
Elongation, %	>100 ASTM D 638																																
Tensile Strength, psi	260 ASTM D 638																																
Adhesive Strength, to Concrete, psi	>260																																
Corrosiveness	Non-Corrosive																																
Storage	Good storage stability at 15-30C, 58-85 F. Store indoors.																																
Appearance	Dark Brown																																
Toxicity	Polyurethane Sealant Essentially Non-Toxic in Cured Form																																
Resistance to Chemicals	MDI Based, Drinking Water Approved 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. WAC200012-W1403