

GT350

Flexible polyurethane injection resin for waterproofing.

Description	MDI based hydrophilic, one-component flexible polyurethane injection resin for waterproofing.
Applications	<ul style="list-style-type: none"> • Shut off water leaks in concrete, brickwork and sewers where movement and settlement may occur. • Water cut-off of water leaks in foundations such as diaphragm walls, piling sheets and secant piles. • Sealing water-carrying cracks and joints in tunnel segments. • Curtain grouting behind tunnel, concrete, brickwork and sewer walls. • Injection of failing membranes and liners in tunnels and buildings.
Advantages	<ul style="list-style-type: none"> • Additional waterproofing due to post expansion. • Fast reaction with immediate increase of viscosity. • Reaction can be set faster with H100 ACC (max 10%). • Can be injected as 1 component or 2 component in combination with water, maximum amount of water = 200%. • Foam factor 6-8V. • Cured polyurethane is highly flexible, ideally suited for structures where a high degree of settlement and movement can occur. • Cured polyurethane is harmless for the environment and resistant to biological attacks.
Packaging	5 Gallon Pails

Properties

Uncured
(appearance brown liquid)

Viscosity at 77°F	(ASTM D4878-98)	±360mPa.s
Flash Point	(ASTM D1310-86)	>302°F
Density	(ASTM D3505-96 [2000])	±1158.66oz/ft ³

Reaction Rate

		68°F		
Accelerator	Water/Resin	End Viscosity Increase	End Foaming	Foam Factor
without accelerator	1/2	0:02:35	0:03:30	8V
1%	1/2	0:01:45	0:02:30	6V
2%	1/2	0:01:25	0:01:50	7V
5%	1/2	0:00:45	0:01:25	7V
10%	1/2	0:00:30	0:00:50	7V

Material Prep	Condition overnight to 70° - 80° F (21° - 26° C). Heat bands or hot water bath may be used to warm containers. Do not heat above 80 degrees F.
Mixing	When H100 ACC is used to speed up the reaction: add the required amount of ACC to the pail PU GT350 and shake vigorously. Mix the accelerator homogeneously into the resin and protect against moisture and rain to prevent premature reaction.
Equipment	Depending on the application, injection can be carried out using a hand pump, pneumatic pump or electric pump. Use a 2-component pump with adjustable ratio for injection of PU GT350 with water. Never mix PU GT350 with water when injection is done with a 1-component pump.
Accessories	ACC H100 Accelerator (when applicable), AP Flush 121, AP Soak 130

Personal Protection	Safety goggles, face shield, impermeable gloves, long sleeves and pants. Use in well ventilated areas. Open doors and windows. In confined areas use mechanical ventilation to keep vapor concentrations low. Prevent direct contact with skin and eyes. See SDS.
Clean Up	Flush injection equipment with AP Flush 121 when necessary. Remove cured material from metal components by soaking in AP Soak 130. Clean off of skin with soap and water.
Environmental Protection	Cured material is chemically inert and safe to dispose of in landfill. Cleanup any spilled liquid resin and place in a suitable sealed container. Dispose of in accordance to applicable environmental regulations.
First Aid	Eye Contact: Immediately flush with large amounts of water. Seek medical attention. Inhalation: Move to fresh air if symptoms occur. If breathing is difficult, seek medical attention. Ingestion: Seek medical attention immediately. Skin Contact: Wipe off contaminated area and wash with soap and water.
Limitations	Low temperatures will increase viscosity making product more difficult to pump. Low temperatures or cold water will slow down the reaction time. pH of reaction water should be between 3 and 10 for optimum foam. Keep lid tightly closed.
Storage	Store between 50° - 85° F (10° - 29° C).
Handling	Keep lids on tightly to prevent moisture from entering containers. Avoid direct contact with product. Be careful when opening as pressure may build up inside containers.
Limited Warranty	Alchemy-Spetec warrants this product to be free from manufacturer's defects and to meet all published properties on current Technical Data Sheet for a period of one year if used according to published instructions and within the shelf life. The user is responsible for determining suitability for intended use and assumes all risk. No other warranties expressed or implied shall apply including any warranty of merchantability or fitness for a particular purpose. Purchaser's sole remedy is limited to the purchase price or product replacement exclusive of cost of labor or other materials.
Latest Information	Before each use read latest Technical Data Sheets, Safety Data Sheets, and instructions available at www.alchemypolymers.com . Nothing contained in any Alchemy-Spetec materials or verbal instruction relieves the user of the obligation to read and follow all usage instructions and warnings for each product contained in the latest Technical Data Sheets and Safety Data Sheets. All information given by Alchemy-Spetec about Alchemy-Spetec products and procedures is given in good faith based on our current experience level and knowledge when materials are properly stored, handled, and applied. Jobsite conditions always vary, and for this reason Alchemy-Spetec assumes no liability for the provision of such information or instructions. Neither shall any legal relationship be created by the provision of such information.

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