

Duropur Super HydroPhilic

POLYURETHANE SYSTEM

Duropur Super HydroPhilic Foam is a low viscosity hydrophilic polyurethane formulation with high elongation properties for sealing leaking cracks or joints in concrete structures with continuous moisture exposure. The single-component system reacts with water to form a foam or gel based on the amount of water encountered. This hydrophilic resin is a MDI based, solvent free formulation. The product may be pumped as a single component or as a dual component system with water.



ADVANTAGE

- ◆ 100 % solids
- ◆ Outstanding adhesion, high elongation
- ◆ Expands up to 25 times initial volume
- ◆ Non-hazardous shipping
- ◆ Pumps as a single component
- ◆ Non-flammable
- ◆ Controllable reaction times
- ◆ Cures inert, non-toxic permanent seal
- ◆ Excellent resistance and durability



TYPICAL APPLICATION

- ◆ Water Related Facilities
- ◆ Concrete Dams
- ◆ Waste Treatment Plants
- ◆ Tunnels
- ◆ Storm Water Systems
- ◆ Earthen Dams
- ◆ Underground Vaults
- ◆ Elevator Pits
- ◆ Manhole Facilities
- ◆ Parking Garages



PACKAGING

- ◆ 20 kg Drum

TYPICAL INFORMATION

Physical Properties - Liquid		
	Gel Foam	Test Method
Viscosity	400 cps	ASTM D-4016
Specific gravity	1.16	ASTM D-1475
Colour	Pale yellow	
Flash Point °C	>200°F	ASTM D-93

Physical Properties - Cured		
Elongation	450%	ASTM D-3574
Tensile Strength	1950 psi	ASTM D-3574
Toxicity	Non-toxic	

TYPICAL REACTION PROFILE

When mixed at a one to one ratio with water at 77° F the typical initiation time is 30 seconds and full rise is about 6 minutes.

APPLICATION EQUIPMENT

Contact Durotech Industries for equipment recommendations for the particular application and conditions.

PERSONAL PROTECTION

Read MSDS for complete details. For professional use only. Avoid breathing vapors – use in well-ventilated area only or use self-contained respiratory protection in confined spaces. Avoid skin contact – wear protective gloves. Avoid eye contact – wear eye protection. Do not ingest.

FIRST AID

In case of eye contact, flush with large amounts of water and get medical attention. For skin contact, wipe excess liquid from skin and wash with soap and water. If breathing is difficult, give oxygen and get medical attention.

SAFETY PRECAUTION

During the chemical reaction, polyurethane products release heat via an exothermic reaction. When polyurethane products are applied in substantial quantities, exothermic reactions may generate enough heat to become a fire hazard. All necessary precautions should be taken to avoid the creation of a situation in which a fire could occur. Contact Durotech Industries for further information.

STORAGE AND SHELF LIFE

Product is moisture sensitive. Store in original sealed containers at temperatures between 60°F and 90°F (15°C-32°C). Opened containers must be handled properly to prevent moisture contamination. Shelf life is 12 months when properly stored.

CLEAN-UP OF SPILLS OR LEAKAGE

With adequate ventilation and appropriate personal protective equipment, cover the spill area with absorbent material such as clay, or vermiculite and transfer to metal waste containers. DO NOT RESEAL CONTAINER AS REACTION OF CONTAMINATED MATERIAL CAN CREATE PRESSURE. Wash area with decontamination solution (5-10 % solution of sodium carbonate). Dispose of waste in accordance with Federal, State and local regulations.

SHIPPING INFORMATION

HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

WARRANTY INFORMATION

This limited warranty is limited to the replacement of the materials which are defective. Durotech Industries makes no other warranty, expressed or implied, and makes no warranty of merchantability or fitness for a particular purpose. This limited warranty does not include any transportation charges or costs of installation or any liability for direct, indirect, consequential, or punitive damages or delay, whether or not the undersigned has been advised of such claims. THE FOREGOING LIMITED WARRANTY IS THE SOLE WARRANTY FOR THE PRODUCT. THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, THE WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

PHYSICAL PROPERTY VALUES

PLEASE NOTE, this Technical Data Sheet is intended as a general guide to provide assistance regarding typical physical characteristics of the product. However, the specific values are affected by various factors, including, but not limited to, ambient temperature, water temperature, humidity, water pH, reaction under confinement, and the presence of chemicals or debris in the reaction area. Applicators are encouraged to perform sample tests with the variables found on site to get the best possible indication of the product's physical properties for the specific job.



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