



SIKASWELL TYPE E PASTE

PRODUCT DATA SHEET

SIKASWELL TYPE E PASTE is a one-component swelling paste comprised of polyurethane, suitable for the permanent sealing of construction joints in concrete structures.

On contact with water, cured **SIKASWELL TYPE E PASTE** swells and seals construction joints against water penetration. An increase in volume of up to 250% is produced by storage of water in the paste's molecular structure.

SIKASWELL TYPE E PASTE Applications Include:

- Construction joints
- Junctions between concrete and steel
- Connecting joints in sheet piling or diaphragm walls
- Wall or slab penetrations for metal, plastic and concrete pipes
- Bonding of **SIKASWELL A** waterstops on very uneven or rough surfaces

SIKASWELL TYPE E PASTE is supplied in ready to use cartridges.

PHYSICAL PROPERTIES

Uncured Material		
Viscosity		Gel/Paste
Specific gravity (20°C / 68°F)	ASTM D1638	1.57
Vertical slump (20°C / 68°F)		3mm
Tack-free (20°C / 68°F, 60% R.H.)		12 hours
Flash point	ASTM D93	129°C / 265°F
Cure time (minimum)		12 hours
Cured Material (3 days at 20°C / 68°F)		
Shore A hardness	ASTM D2240	39
Tensile strength	ASTM D3574-86	265 psi
Elongation	ASTM D3574-86	625%
Tear strength	ASTM D790	176 psi
Swelling expansion in water		≥250%
Swelling expansion from pH	pH of 7	380% (9 days)
	pH of 13	580% (3 days)
Toxicity		Non-toxic
Solubility in water		Non-soluble
Shelf life		9 months
Storage temperature		5°C to 25°C / 41°F to 77°F
Cartridge size		310ml (10.5 oz.)



SIKASWELL TYPE E PASTE

INSTALLATION

1. **SIKASWELL TYPE E PASTE** can be applied with a suitable hand-held caulk gun. For large jobs and ease of application, pneumatic guns or mechanical guns are suggested.
2. Puncture and lift the double layer bottom of the cartridge, remove the pellets.
3. Puncture the opening of the cartridge and free entire cross section.
4. Cut the nozzle diagonally to obtain an opening of 6-10mm and place the cartridge in caulk gun.
5. Direct caulk gun along the surface at an angle of 45° extruding paste evenly and firmly pressing the paste bead against the substrate.



LIMITATIONS, PRECAUTIONS AND CONSIDERATIONS

- The substrate must be free of grease, dirt and contaminants.
- A minimum of 24 hours is required for curing prior to concrete placement. During this time, the paste should be protected from exposure to water. When placing concrete, take care to ensure that the swelling paste is fully covered by concrete.
- Do not apply on frozen surfaces. Application temperature is 41°F to 104°F. Low temperatures will render more difficult to extrude and retard the curing process of the paste. During cold weather, store the paste in warm conditions prior to use.
- Yield, when applied as an 8mm bead, is approximately 5m per 310ml cartridge, depending on substrate.

REACTION TO CHEMICAL EXPOSURE

Test Liquid	Stability	Swelling
Unleaded Fuel	Resistant / discoloring	~ 46%
Gasoline	Resistant / discoloring	~ 2%
Toluene	Resistant	~ 143%
Xylene	Resistant	~ 85%
Methanol 50%	Resistant	~ 405%
Isopropanol 50%	Resistant	~ 500%
N-methylpyrrolidone	Resistant / discoloring	~ 618%
Ethylacetate	Resistant	~ 195%
Methylisobutylketon	Resistant	~ 87%
Acetic acid 10%	Limited resistance	~ 150%
Formol 36%	Resistant	~ 500%
Sulphuric acid 10%	Resistant	~ 193%
Sulphuric acid 20%	Resistant	~ 231%
Sodium chloride 26%	Resistant	~ 25%

WARRANTY: VINYLEX WATERSTOP & ACCESSORIES warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Technical Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKASWELL SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. VINYLEX WATERSTOP & ACCESSORIES SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

PACKING

310 ml cartridge / 6 cartridges per carton / 147 cartons per pallet

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