Sika[®] MonoTop[®] 611 One-component, polymer-modified, silica fume enhanced, cementitious pump and pour mortar

Description	Sika® MonoTop® 611 is a 1-component silica fume-enhanced, polymer-modified, portland-cement, mortar.			
Where to Use	 On grade, above, and below grade on concrete and mortar. On horizontal, vertical and overhead surfaces. As a structural repair material for parking facilities, industrial plants, walkways, bridges, tunnels, and dams. Free-flowing repair mortar for hard-to-reach areas. Filler for voids and cavities. For underwater application in conjunction with Sikament[®] 100SC. Consult Technical Service for dosage information. Independent test data is available however on site testing is recommended to confirm performance under actual field conditions. 			
Advantages	 Superior abrasion resistance over conventional portland cement mortar. High bond strength. Compatible with coefficient of thermal expansion of concrete. Increased resistance to deicing salts. High early strengths. Simple-to-use labor-saving system. Easily mixed. High compressive and flexural strengths. Good freeze/thaw resistance. Easily applied to clean, sound substrate. Not a vapor barrier. Not flammable. 			
Coverage	Approximately 0.42 cu. ft./unit. Approximately 0.67 cu. ft./unit (50 lbs. of MT 611+42 lbs. 3/8" pea gravel)			
Packaging	50-lb. multi-wall bag.			
	Typical Data (Mate RESULTS MAY DIFFER BAS TEMPERATURE, APPLICATI Shelf Life Storage Conditions Color Mixing Ratio Application Time Flexural Strength (AS Splitting Tensile Strengt Bond Strength* (AST Compressive Strengt 1 day 3,000 (7 days 5,500) 28 days 6,500) Chloride ion permeat	erial and curing condition ED UPON STATISTICAL VARIAT ON METHODS, TEST METHODS 1 year in original, unopu- Store dry at 40°-95°F (4 ing. Concrete gray when mix- Mix with clean potable w lon and temper slowly to Approximately 30 min. a plastic for a longer period time. Application time is STM C-293) mgth (ASTM C-496) M C-882 modified) th (ASTM C-109) psi (20.7 MPa) psi (37.9 MPa) psi (44.8 MPa) bility (AASHTO T-277)	 ans @ 73°F (23°C) and 50% R.H.) TONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, S, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. ened packaging. °-35°C). Condition material to 65°-75°F before us- ced. vater at rate of 1 gallon per bag. Start with 4/5 gal- o consistency required with remainder of gallon. after mixing with water. Mortar remains bd, but will have less adhesion after this period of dependent on temperature and relative humidity. 28 days 720 psi (5.0 MPa) 28 days 500 psi (3.4 MPa) 28 days 2,200 psi (15.2 MPa) 	
	- MORTAR SCRUDDED INTO SUDSTRATE.			



PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE-PARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR-RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

How to Use				
Substrate Surface Preparation	Concrete, mortar, and masonry products Concrete/Mortar: Remove all deteriorated concrete, dirt, oil, grease, and all bond-inhibiting materials from surface. Be sure repair area is not less than 1/2 inch in depth. Preparation work should be done by high pres- sure water blast, scabbler, or other appropriate mechanical means to obtain an exposed aggregate surface with a minimum surface profile of ±1/16 in. (CSP-5). Saturate surface with clean water. Substrate should be saturated surface dry (SSD) with no standing water during application. Reinforcing Steel: Steel reinforcement should be thoroughly prepared by mechanical cleaning to remove all traces of rust. Where corrosion has occurred due to the presence of chlorides, the steel should be high-pressure washed with clean water after mechanical cleaning. For priming of reinforcing steel use Sika [®] Armatec [®] 110 Expected (Steel)			
Priming	For priming of reinforcing steel use Sika [®] Armatec [®] 110 EpoCem (consult Technical Data Sheet).			
Mixing	Sika MonoTop mortar: Place 4/5 of 1 gallon water in mixing container. Add Sika [®] MonoTop [®] while con- tinuing to mix. Add additional water up to 1 gallon total. Mix to a uniform consistency, maximum 3 minutes. Mechanically mix with a low-speed drill (400-600 rpm) and paddle or in appropriate-size mortar mixer. Sika MonoTop concrete: For applications greater than 1 inch in depth, add 3/8-inch coarse aggregate (42-lb./ unit) to Sika MonoTop to produce Sika [®] MonoTop [®] concrete. Trial mix designs should be conducted to simulate job conditions. The aggregate must be non-reactive (reference ASTMC1260, C227 and C289), clean, well- graded, saturated surface dry, have low absorption, high density, and comply with ASTM C33 size number 8 per Table 2. Mix as above. Introduce aggregate at desired quantity. Mix to uniform consistency, maximum 3 minutes			
Application	Form and pour or pump applications: Pre-wet surface to SSD. Vibrate form while pouring or pumping. Pump with a variable pressure pump. Continue pumping until a 3 to 5 psi increase in normal line pressure is evident then STOP pumping. Form should not deflect. Vent to be capped when steady flow is evident, and forms stripped when appropriate.			
Tooling & Finishing	As per ACI recommendations for portland cement concrete, curing is required. Moist cure with wet burlap and poly- ethylene, a fine mist of water or a water based* compatible curing compound. Curing compounds adversely affect the adhesion of following layers of mortar, leveling mortar or protective coatings. Moist curing should commence immediately after finishing. Protect newly applied material from direct sunlight, wind, rain and frost. *Pretesting of curing compound is recommended.			
Limitations	 Application thickness: Minimum Maximum Neat 1/2 inch (13 mm) 1 inch (25 mm) Extended 1 inch (25 mm) 6 inches (150 mm) Minimum ambient and surface temperatures 45°F (7°C) and rising at time of application. Addition of coarse aggregates may result in variations of the physical properties of the mortar. Do not use a solvent-based curing compound. Product is not designed for unconfined placements or overlays (use SikaTop® 111 <i>PLUS</i>). As with all cement based materials, avoid contact with aluminum to prevent adverse chemical reaction and possible product failure. Insulate potential areas of contact by coating aluminum bars, rails, posts etc. with an appropriate epoxy such as Sikadur® Hi-Mod 32. 			

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KEEP CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ONLY.

For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Department at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

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