

AKWASWELL

SINGLE COMPONENT CAULK GRADE SWELLING WATERSTOP

DESCRIPTION

AKWASWELL is a caulk grade, single component swelling paste used to stop water infiltration through concrete construction joints. It is a specially formulated polyurethane-based material with a hydrophilic agent dispersed evenly throughout the paste. AKWASWELL is installed with a standard caulk gun and self adheres to dry concrete surfaces; no mechanical fastening or adhesives required.

The key to AKWASWELL's effectiveness is its 200% swelling capacity when wetted and its plasticity to contour the surrounding surface. This swelling action creates a positive seal against the concrete in construction joints and stops the flow of water through the joint. AKWASWELL has been successfully tested to 35 m of hydrostatic pressure when properly installed in concrete joints.

APPLICATIONS

AKWASWELL is ideal for rough concrete surfaces and irregular penetration surfaces. Other applications include horizontal and vertical poured-in-place concrete joints, new to existing concrete pours, around penetrations, and concrete repair joints. AKWASWELL is not an expansion joint material.

PACKAGING

AKWASWELL is packaged in 310 ml caulk cartridges; 12 cartridges to a case. Gross weight per case is 6,8 kg. Typical storage life - 24 months. Store in dry warehouse at warm temperatures.

INSTALLATION

Clean the substrate surface prior to application. Cut the tip off the plastic caulk tube nozzle to provide a 8 to 12 mm hole and then through the hole pierce the cartridge to provide a path for the paste to exit. Place cartridge in a standard caulking gun and apply a minimum 8 mm diameter bead continuously along the surface. Place the AKWASWELL where it will at least be covered by a minimum of 50 mm of concrete on all sides. Keep the nozzle tip pressed against the concrete at a 45° angle during application to assure continuous contact with substrate.

Typical application rate will be 6 linear m per tube. Actual coverage rate will vary due to application technique and substrate conditions.

For best results apply to dry concrete substrate. Paste will adhere to a slightly damp surface but not a wet surface. Install when the ambient temperature is above 4°C. High temperature and relative humidity accelerate the pastes curing process. Allow AKWASWELL to cure for a minimum 24-36 hours before placing concrete (with or without the installation of Akwastop).

Use product in a well ventilated area. Wear applicable safety equipment including glasses and gloves. Limit contact with skin. Dispose of product and empty cartridges per applicable regulations. Refer to MSDS sheet for full safety and health information.

TECHNICAL DATA		
PROPERTY	TEST METHOD	TYPICAL VALUE
Solids		100%
Volume Expansion (in water)		>200%
Elongation	ASTM D3574-95	625%
Tensile Strength	ASTM D412	300 psi
Tearing Strength	ASTM D790	176 psi
Shore Hardness	ASTM D2240	39-A
Setting Time, 60%RH @ 68°F	Tack Free	12-Hours