

SealBoss®

SwellCaulk™



Product Data Sheet
Highly Swellable
Gungrade Waterstop Joint Seal

SealBoss® SwellCaulk™ Advantages

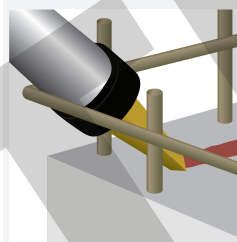
- Solvent free, pliable gungrade mastic
- Wet, dry and underwater applications
- Adheres to concrete, PVC, HDPE, steel, fiberglass
- Unconfined expansion 200-350 %
- Flexible product for irregular surfaces
- Easy application
- Chemical resistance, see chart
- Adhesive for SealBoss® SwellTape™

SealBoss® SwellCaulk™ Applications

- Works on irregular, rough and smooth surfaces
- Sealing construction joints of cast in-place or precast concrete
- Many uses including manholes, culverts, cable ducts, pipes and more
- Sheet Piles, sealing sheet pile knuckle joints
- Sealing between waterstop strips and rough concrete surfaces



The SealBoss® SwellCaulk™ Hydro Active Joint Seal Principle



When in contact with water, SealBoss® SwellCaulk™ Sealants develop an expansive swelling pressure. The pressure between the expanding product and the surrounding concrete structure prevents the penetration of water through the joint and provides a durable waterproofing solution.

Product Description

SealBoss® SwellCaulk™ is a single component, hydrophilic, gungrade waterstop. The product is formulated for sealing construction joints, pipe penetrations and other concrete joints of smooth and uneven surfaces. Material cures and swells in the presence of moisture or water thereby creating a compression seal. Curing time decreases with higher temperatures and greater relative humidity. SealBoss® SwellCaulk™ will cure in approximately 24 to 36 hours depending on ambient climate. The product is supplied in sausages or in cartridges. The product is for professional use.

SealBoss® SwellCaulk™ can be used as an adhesive for SealBoss® SwellTape™, joint waterstop system, see corresponding data sheet.

Installation Guidelines

SealBoss® SwellCaulk™ should be applied to a dust-free concrete surface which can be uneven, rough, smooth, moist or dry.

Product Preparation

20 oz / 600 ml Sausages:
Place the product firmly in the bulk sausage caulking gun and cut 1/8 inch off the top of the sausage removing the crimp bead. Close the tube and install the nozzle. Nozzles are supplied with the appropriate opening.

Application Method

Apply SealBoss® SwellCaulk™ in an uninterrupted band 3/8" or 10 mm bead minimum to the middle of the joint or precast element. The concrete cover must be at least 3" or 7 cm on all sides in order to avoid cracks from the pressure of swelling material.

In underwater or very wet conditions (heavy rain), the concrete pour should begin within 2 hours of application to prevent

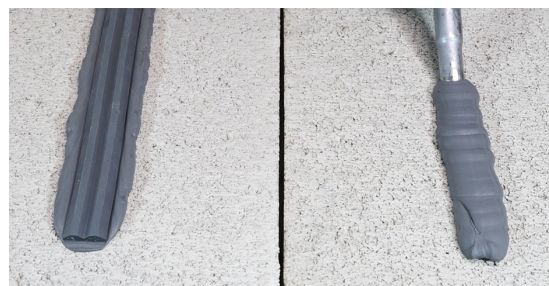
material from premature swelling which may result in reduced effectiveness of the product.

Sheet Pile Applications

SealBoss® SwellCaulk is designed to seal sheet pile knuckles by application of SealBoss® SwellCaulk in an uninterrupted band, gunned in the female sheet pile interlock before driving the sheet piles. The caulked sheet pile interlocks need to be protected from rain and water to avoid premature swelling. SealBoss® SwellCaulk must be fully confined on all sides to perform properly.

Limitations

SealBoss® SwellCaulk™ must be completely confined to perform properly. When used in precast or joints, minimum concrete cover is 3" or 7cm on all sides. Unconfined material may expand beyond design levels and may result in leaks. The product is not suitable for surface caulking applications. At temperatures below 40°F, the product cure time may exceed several days.



SwellTape™ embedded in SwellCaulk™

Gungrade SwellCaulk™

SealBoss® SwellCaulk™

SealBoss®

SwellCaulk™



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Technical Properties

Uncured

Appearance	Grey
Solids	100%
Density g/ml	1.4
Flash Point, °C / °F	130°C/266°F ASTM D93
Viscosity	gel / paste
Vertical Slump	1/8"
Skin over	2.5 - 10 hrs

Properties Cured Product:

Elongation at break	600% ASTM D3574
Tensile Strength, psi	300-320 ASTM D412
Resistance to hydrostatic pressure (ft)	> 330
Unconfined swelling capacity in contact with water	200-350%

Coverage

20 oz

Bead Coverage

1/4"	50-70 ft
5/16"	24-30 ft
3/8"	~ 20 ft

Corrosiveness

Non-Corrosive

Health and Safety

Protect your health! While working with this material, always use safety goggles, gloves and safety clothing consistent with OSHA and all applicable local and jobsite regulations. When handling hazardous materials or pressurized materials, or during any application that may result in spills, splashes or airborne particles, a full face shield is strongly recommended. Protect yourself and others on the jobsite. Consider property in proximity of the application area to prevent loss or damage. Protect your jobsite from unauthorized persons. Store all materials and equipment safely and out of reach of children and animals! Observe container labels, SDS, applicable laws and regulations and all instructions before using the product and equipment. In case one of the components comes in contact with the skin, wash thoroughly with soap and water. Provide adequate ventilation in volume and pattern in working area. Further protection: emergency showers and eyewash stations. Get immediate medical attention as needed.



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