

CONCRETE WATER EXPANDING FLEXIBLE JOINT WATERSTOP STRIP

DESCRIPTION

PENEBAR® SW-55 is a bentonite infused butyl rubber waterstop developed to stop water penetration through cast-in-place concrete joints by expanding in a controlled fashion, when exposed to water and making a positive seal inside and against the concrete. Its superior ability to expand and seal concrete joints, allows it to replace the more passive tied in PVC waterstop systems and eliminate welding irons, split-forming and special shapes.

PENEBAR® SW-55 can be applied to non-moving, concrete construction joints for both horizontal and vertical applications. It can be used on new to existing concrete, irregular surfaces and through wall or slab penetrations, such as pipes, utility lines, piling and steel members. Other typical applications that are ideal for PENEBAR™ SW-55 are:

- ▶ Underground structures
- ▶ Basements
- ▶ Precast panels
- ▶ Tunnels
- ▶ New to existing concrete
- ▶ Manholes
- ▶ Lift pits
- ▶ Retaining walls
- ▶ Concrete pipes
- ▶ Storage tanks

ADVANTAGES

- ▶ Controlled expansion. No early expansion of the product
- ▶ Allows concrete to cure normally, before expansion
- ▶ No decomposition with the passage of time
- ▶ Not affected by hydration/drying cycles
- ▶ Easy application, even on rough surfaces
- ▶ Applicable on horizontal and vertical surfaces
- ▶ No problems with the concrete application and compaction
- ▶ Not toxic. No special handling is required

TECHNICAL CHARACTERISTICS

Characteristics	Test Result	Test Method
<i>Color</i>	Black	
<i>Specific gravity</i>	1,55 ± 0,05 kg/L (84,28 ± 3,12 lb/ft³)	ASTM D-71
<i>Volatile matter</i>	1% max.	ASTM D-6
<i>Penetration (150 g cone at 25 °C (77 °F); 5 sec)</i>	40 ± 5 mm (1 37/64" ± 13/64")	ASTM D-217
<i>Application temperature</i>	-23 °C to 52 °C (-10 °F to 125 °F)	
<i>Service temperature</i>	-34 °C to 82 °C (-30 °F to 180 °F)	

All data are average values obtained under laboratory conditions. Impractical use, temperature, humidity and absorption of the substrate may influence the above given values.

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DIRECTIONS FOR USE

Surface Preparation: Carefully brush off all dust and debris and apply a coat of appropriate PENEBAR® PRIMER.

Application: Apply PENEBAR® PRIMER by using brush at a minimum of 0,1mm (4 mils thick) by 50 mm wide over the entire surface length to receive PENEBAR® SW-55. Allow it to dry for 10-15 min at a temperature of 25°C (77°F) or where the temperatures are low, allow it dry for longer time. By using the heel of the hand and moderate pressure, press a bead of PENEBAR® SW-55 firmly into position on the standing structure. Make sure the product has bonded with the primed area. Where required, splice ends to form a continuous, uninterrupted seal. For best results, cut each end at opposite 45° angles and tightly butt ends together. **DO NOT OVERLAP ENDS.** Gently knead the spliced ends creating an uninterrupted seal. Peel the protective covering from the exposed side of the installed PENEBAR® SW-55. Follow standard concrete placing procedures from here onwards.

Application Rates: 240 m (787 ft) PENEBAR® SW-55 to 3,78 L (1 gal) PENEBAR® PRIMER to the area, where PENEBAR® SW-55 is to be placed.

SPECIAL CONSIDERATIONS

Always use PENEBAR® PRIMER to ensure tight adhesion and to aid in preventing PENEBAR® SW-55 from moving, during the concrete pour. For vertical surfaces, nails may be used to hold the product in place in conjunction with PENEBAR® PRIMER.

PENEBAR® SW-55 should be used at a minimum depth of 50 mm (2") inside the concrete.

When used on pipes and other structural penetrations, PENEBAR® SW-55 should be cut to measured length and placed around the penetration with ends butted.

In all cases, PENEBAR® SW-55 should be in direct contact with the substrate along the entire length of the installation.

PENEBAR® SW-55 is not an expansion joint sealant and only suitable for non-moving concrete joints.

PENEBAR® SW-55 should not be installed in standing water or on frozen or icy surfaces.

Contact PENETRON HELLAS S.A. for further information regarding your project.

PACKAGING

PENEBAR® SW-55 is available in two types:

Type A is packaged 30 meters/carton [6 rolls, 19mm x 25mm x 5m (¾" x 63/64" x 16,4 ft), each].

Type B is packaged 24 meters/carton [6 rolls, 9mm x 25mm x 4m (23/64" x 63/64" x 13,2 ft), each].

STORAGE / SHELF LIFE

When stored in a dry enclosed area off the ground at a minimum temperature of 7 °C (45 °F) in unopened, undamaged cartons, shelf life is unlimited.

SAFE HANDLING INFORMATION

Avoid skin and eye contact. If contact is made, flush areas with lots of water and seek medical advice. Protective gloves, mask and goggles should be worn. For further information please refer to Safety Data Sheet. PENETRON HELLAS S.A. has recently updated Safety Data Sheet on the safe use of PENETRON® products. Each Safety Data Sheet contains health and safety information for the protection of your employees and your customers. **KEEP OUT OF REACH OF CHILDREN.**

CERTIFICATION



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DOP NO: 10.10003D260124-05
EAD 320008-01-0605
PENEBAR SW-55

Swellable joint sealing tape
European Technical Assessment
ETA-23/0633 of 16.01.2024
Reaction to fire: Class E

Dimensions: Type A 19 mm x 25 mm
Type B 9 mm x 25 mm

Watertightness in end use conditions: 12 m water column / watertight up to 3 bar tested

Swelling behaviour in different liquids at state of delivery:

Deionised water: 15 d, 77%

Alkaline solution: 25 d, 164%

Acidic solution: 14 d, 44%

Reversibility of swelling process:

-Swelling process is reversible in 11 to 14 days

- Swelling process started without time lag

Swelling pressure: 0.5 N/mm²

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