

## DESCRIPTION

PENEBAR™ SW-45 Rapid is a unique sealing compound designed to expand rapidly when exposed to moisture making it a self-healing joint material for construction joint applications.

## RECOMMENDED FOR

Typical Applications for PENEBAR™ SW-45 Rapid include building foundations, slabs, retaining walls, storage tanks, and similar non-moving cold construction joints.

## DIRECTIONS FOR USE

How to apply PENEBAR™ SW-45 Rapid on poured-in-place construction joints:

- 1) Carefully brush off all dust and debris and apply a coat of appropriate PENEBAR™ PRIMER to the area where the PENEBAR™ SW-45 Rapid is to be placed.
- 2) Using the heel of the hand and moderate pressure, press a continuous bead of PENEBAR™ SW-45 Rapid firmly into position. Check to be certain that the sealant has bonded to the primed area.
- 3) Splicing the ends to form a continuous, uninterrupted seal. For the best results, cut each end at opposite 45° angles and position the cut ends together. Gently kneed the spliced ends creating an uninterrupted seal.
- 4) Peel the protective backing from the exposed side of the PENEBAR™ SW-45 Rapid.
- 5) Pour the mating structural member into position.

### NOTES:

- ▶ Always use PENEBAR™ PRIMER to avoid displacement of the PENEBAR™ SW-45 Rapid during concrete pouring. It may be necessary to utilize masonry nails or other mechanical means to hold the sealant in place on vertical surfaces.
- ▶ Place PENEBAR™ SW-45 Rapid so that it is no closer than 2" (5 cm) away from the outer surface of poured structure. If a Keyway is utilized, place the PENEBAR™ SW-45 Rapid into the bottom of the formed Keyway area.

## RATE OF RAPID EXPANSION

### Freshwater Exposure Results:

24 hours	140% Expansion	Visible signs of cracking along edges of specimen.
48 hours	175% Expansion	Splitting along the sides of the specimen. Both ends opening up like a flower blossom.
72 hours	190% Expansion	More pronounced splitting along sides and ends.
120 hours	210% Expansion	Specimen's expansion became so great that further testing was impracticable.

### Saltwater Exposure Results:

24 hours	7% Expansion	No visible sign of deterioration
48 hours	12% Expansion	No visible sign of deterioration
72 hours	14% Expansion	No visible sign of deterioration
120 hours	18% Expansion	No visible sign of deterioration

#### PHYSICAL PROPERTIES

DESCRIPTION	TEST METHOD	PENEBAR™ SW-45 Rapid
Color		Black
Specific Gravity	ASTM D-71	1.35± 0.05
Hydrocarbon Content	ASTM D-297	47% min.
Volatile Matter	ASTM D-6	1% max.
Penetration, 150 g cone @77°F (25°C); 5 sec.	ASTM D-217	40±5 mm

**Application Temperature Range:** -10°F to 100°F (-23°C to 38°C)

**Service Temperature Range:** -30°F to 180°F (-34°C to 82°C)

#### SPECIAL CONSIDERATIONS

- ▶ Always use PENEBAR™ PRIMER to ensure tight adhesion and to aid in preventing PENEBAR™ SW-45 Rapid 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-45 Rapid should be used at a minimum depth of 50 mm (2") inside the concrete.
- ▶ When used on pipes and other structural penetrations, PENEBAR™ SW-45 Rapid should be cut to measured length and placed around the penetration with ends butted.
- ▶ In all cases, PENEBAR™ SW-45 Rapid should be in direct contact with the substrate along the entire length of the installation.
- ▶ PENEBAR™ SW-45 Rapid is not an expansion joint sealant and only suitable for non-moving concrete joints.
- ▶ PENEBAR™ SW-45 Rapid should not be installed in standing water or on frozen or icy surfaces.

#### PACKAGING

Type A is packaged 30 meters/carton (6 rolls, 19mm × 25mm × 5m each).

Type B: is packaged 24 meters/carton (6 rolls, 9mm × 25mm × 4m each).

#### STORAGE / SHELF LIFE

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

#### SAFE HANDLING INFORMATION

Keep out of reach of children.

#### WARRANTY

PENETRON INTERNATIONAL, LTD. warrants that the products manufactured by it shall be free from material defects and will conform to formulation standards and contain all components in their proper proportion. Should any of the products be proven defective, the liability to PENETRON INTERNATIONAL, LTD. shall be limited to replacement of the material proven to be defective and shall in no case be liable otherwise or for incidental or consequential damages. **PENETRON INTERNATIONAL, LTD. MAKES NO WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED.** User shall determine the suitability of the product for its intended use and assume all risks and liability in connection therewith.