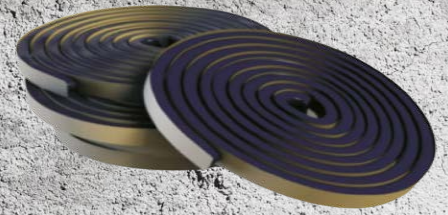


# Penebar



**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.

**APPLICATIONS** Typical applications for PENEBAR™ SW-45 Rapid include: Building foundations Slabs Retaining walls Storage tanks Other similar non-moving cold construction joints.

## PHYSICAL PROPERTIES

**Colour:** Black

**Specific gravity:** (ASTM D71):  $1.5 \pm 0.05$

**Volatile matter:** (ASTM D6): 1% maximum

**Penetration:** 150 g cone @ 25°C ; 5 sec (ASTM D217):  $40 \pm 5$  mm

**Application temperature range :** -20°C to 40°C

**Service temperature range :** -35°C to 80°C

**STANDARD** Complies and meet the requirements to EU REACH Regulation (EC) No 1907/2006 Article 33(1) Obligation to provide information of safe use (see REACH requirement in report for details).

## DIRECTIONS FOR USE

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

- 1) Apply PENEBAR™ to the concrete structure, then cover PENEBAR with metal mesh. Then fix them with masonry nails or by other mechanical means to hold the material on surfaces. This will allow to avoid PENEBAR displacement during concrete placing procedures.
- 2) 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.
- 3) Please note that PENEBAR should be placed no closer than 75mm from the outer surface of poured structure.
- 4) Follow standard concrete placing procedures from here onwards.

## **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 sides of specimen. Both ends opening like a flower.
72 hours	90% 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	107% expansion	No visible sign of deterioration
48 hours	112% expansion	No visible sign of deterioration
72 hours	114% expansion	No visible sign of deterioration
120 hours	118% expansion	No visible sign of deterioration

## **SPECIAL CONSIDERATIONS**

- Always mesh and other mechanical means to ensure tight adhesion and to aid in preventing PENEBAR™ SW-45 Rapid from moving during the concrete pour.
- PENEBAR™ SW-45 Rapid should be used at a minimum depth of 75 mm 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, 19 mm × 25mm × 5 m each).

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

**STORAGE / SHELF LIFE** When stored in a dry enclosed area off the ground at a minimum temperature of 5°C in unopened, undamaged cartons, shelf life is unlimited.

**SAFE HANDLING INFORMATION** Keep out of reach of children. Refer to the Safety Data Sheet for additional information.

## **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.