

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

- ▶ Building foundations
- ▶ Slabs
- ▶ Retaining walls
- ▶ Storage tanks
- ▶ Non-moving cold construction joint applications

TECHNICAL CHARACTERISTICS

Characteristics	Test Result	Test Method
Color	Black	
Specific gravity	84.28 ± 3.12 lb/ft ³ (1.35 ± 0.05 kg/Lt)	ASTM D-71
Hydrocarbon content	47% min.	ASTM D-297
Volatile matter	1% max.	ASTM D-6
Penetration (150 g cone at 77 °F (25 °C); 5 sec)	1 37/64" ± 13/64" (40 ± 5 mm)	ASTM D-217
Application temperature	-10 °F to 100 °F (-23 °C to 38 °C)	
Service temperature	-30 °F to 180 °F (-34 °C to 82 °C)	

Rate of rapid expansion of PENEBAR™ SW-45 RAPID

Freshwater Exposure Results:

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

Saltwater Exposure Results:

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

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

CONCRETE JOINT WATERSTOP

DIRECTIONS FOR USE

Surface Preparation: 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.

Application: 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. 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. Peel the protective backing from the exposed side of the PENEBAR™ SW-45 RAPID. Pour the mating structural member into position.

NOTE: 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.

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 2" (50 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.

Contact PENETRON HELLAS for further information regarding your project.

PACKAGING

PENEBAR™ SW-45 RAPID is available in two types:

Type A is packaged 30 meters/carton
[6 rolls, ¾" × 63/64" × 16.4 ft (19mm × 25mm × 5m), each].

Type B is packaged 24 meters/carton
[6 rolls, 23/64" × 63/64" × 13.2 ft (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

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 Material Safety Data Sheet. KEEP OUT OF REACH OF CHILDREN.

WARRANTY – DISCLAIMER

PENETRON HELLAS LTD warrants that its products are manufactured under certified ISO Standard procedures, are of excellent quality and shall be free from material defects and contain all components in their proper proportion. Should any of the products be proven defective, the liability to PENETRON HELLAS LTD shall be limited to replacement of the material proven to be defective, since the standard application procedures have been met and the suitability of the product for the particular application have been proven. PENETRON HELLAS LTD makes no warranty as to merchantability of fitness for a particular purpose. User, after contacting the distributor of the product, shall determine the suitability of the product for his intended use and assume all risks and liability in connection therewith. While every care has been taken, the information provided in this product's data sheet make no part of any contract. All recommendations, technical data and test data contained in this product's data sheet are based upon the results of control laboratory tests or in actual field tests. However, PENETRON HELLAS LTD makes no warranty of any kind, concerning this data. In any case, this data are given in good faith based in the PENETRON HELLAS LTD experience, till the publication of this sheet. Due to variance in storage, handling and applications of the materials, PENETRON HELLAS LTD accepts no liability for the results obtained. It is suggested that potential users try small applications to determine the suitability of each individual product for their specific requirements. The users should always refer to the most recent edition of the product's data sheet. PENETRON HELLAS LTD may particularly differentiate its versions of the product's data sheet compared with those of PENETRON INTERNATIONAL LTD or respective PENETRON companies worldwide. These changes are due to text formatting, different application weathering and procedures or different product names and aim at the optimal consumer information.

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