



Technical Data Sheet

QPR NxGEN Hot Applied Crack Sealant

PRODUCT DESCRIPTION

QPR® NxGEN Hot Applied Crack Sealant is a single component, hot applied crack sealant. When properly prepared and applied, it forms a resilient crack sealant for both asphalt and concrete pavements.

PRODUCT USE

QPR® NxGEN Hot Applied Crack Sealant is designed to seal expansion joints, longitudinal and transverse cracks, joints between concrete and asphalt shoulders, and random cracks in both asphalt and concrete pavements.

SIZES

QPR® NxGEN Hot Applied Crack Sealant is supplied in 50 lb (22.6 kg) cardboard cartons.

YIELD

Each 50 lb (22.7 kg) of product will seal an average of 350 linear feet (106.7 m) depending on crack size.

TECHNICAL DATA

Typical values and application temperatures of the QPR® NxGEN Hot Applied Crack Sealant can be found in Table 1.

Applicable Standards:

ASTM D 5329 Standard Test Methods for Sealants and Fillers, Hot-Applied, for Joints and Cracks in Asphaltic and Portland Cement Concrete Pavements

TABLE 1:

Application Temperature Range 375 °F to 395 °F (190 °C to 202 °C)
Maximum Heating Temperature 395 °F (202 °C)
Softening Point 200 °F (93 °C) Minimum
Cone Penetration at 77 °F (25 °C) 3.5 in (90 mm) Maximum
Resilience 60% Minimum

INSTALLATION PREPARATORY WORK

Proper surface preparation will facilitate adequate adhesion and consequently the maximum service life of the sealant. Cracks must be free from moisture, dust, and loose aggregate. Routing or wire brushing are preferred methods followed by a compressed air heat lance immediately prior to sealing. The substrate and air temperature must be above 40 °F (4 °C).

APPLICATION

WEAR PROPER PERSONAL PROTECTIVE EQUIPMENT (PPE)!

QPR® NxGEN Hot Applied Crack Sealant can be melted in a direct fire kettle or conventional oil-jacketed unit equipped with an agitator and temperature control device for both material and heat transfer oil.

Carefully insert blocks of material (with plastic bag) into melting equipment with agitator turned on. Load material slowly to avoid splashing. After the initial load of material has reached the recommended application temperature range of 375 °F to 395 °F (190 °C to 202 °C), fresh material may be added as sealant is used. Melt only as much material as will be used the same day. After QPR® NxGEN Hot Applied Crack Sealant is melted, it should be agitated or recirculated.

Apply heated QPR® NxGEN Hot Applied Crack Sealant using either a pump and wand system or a pour pot. For best results, the sealant depth to width ratio should not exceed 2 to 1 (i.e. 2 in (50 mm) deep to 1 in (25 mm) wide). The cooled sealant height should not exceed .125 in (3.2 mm) above surrounding pavement. Using a sealing shoe or squeegee, band the material 2 in to 3 in (50 mm to 75 mm) wide over the crack.



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PRECAUTIONS

Prevent any contact of hot sealant or equipment with skin, eyes and clothes. Hot product or equipment can cause extreme burns. In case of burns, immediately seek medical attention.

Utilize proper Personal Protective Equipment (PPE) when applying this material, including: hard hat with face shield, long sleeved shirt buttoned at the wrists, heat resistant gloves, full length pants, and safety toed work boots. For additional information, please reference the Safety Data Sheet (SDS) online at www.QPRUSA.com, or view OSHA Safety Regulations. Make certain all areas around direct fire kettle or conventional oil-jacketed unit is clear of all debris and flammable materials. Avoid breathing vapors. Use with adequate ventilation.

Cracks must be free from moisture, dust, dirt, and debris. Both substrate and air temperature must be above 40 °F (4 °C). Keep boxes of material dry during storage. Do not store in direct sunlight.

Use material as supplied. Do not blend with other materials. NEVER EXCEED MAXIMUM HEATING TEMPERATURE OF 395 °F (202 °C) OR HEAT LONGER THAN 7 HOURS. If material becomes thick and gooey in the kettle and/or the presence of clumps are seen, then this is an indication the product has been overheated. If additional mixing returns the material to the previous viscosity then it will be acceptable to use. If it does not, then immediately remove the material from the heating apparatus and dispose of it in a proper manner. Otherwise the material may harden in the kettle.

WARRANTY

QPR® warrants this product to be of merchantable quality when used or applied in accordance with the instructions hereon. The product is not warranted as suitable for any purpose or use other than the general purpose for which it is intended. Liability under this warranty is limited to the replacement of its product (as purchased) found to be defective, or at the shipping company's option, to refund the purchase price. In the event of a claim under this warranty, notice must be given to QPR® in writing at The QUIKRETE Companies, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328. This limited warranty is issued and accepted in lieu of all other express warranties and expressly excludes liability for consequential damages.