QUICSEAL 172

Q-Stop PU

Fast reacting within 1 minute

Non-shrink hydrophobic formula.

Resistant to salt water and mild acids

Semi Flexible to accommodate slight movement within cracks

Solvent free

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QUICSEAL 172

Q-Stop PU

DESCRIPTION

QUICSEAL 172 is a single component hydrophobic polyurethane injection resin, which stops water ingress. QUICSEAL 172 reacts with the water present in the injection area to form a dense, closed cell foam in which water will not pass through. In an unconfined environment, its expansion rate can be up to 20 times. With the addition of the catalyst component – QUICSEAL 171, the reaction time can be reduced to approximately 1 minute

TYPICAL USES

- Filling of gaps and cavities in masonry and concrete in case of water ingress
- To cut off water flow through concrete joints or cracks
- Seals seeping and gushing leaks
- Leak sealing in concrete and moist soil

MIXING APPLICATIONS

Application by single component injection pump equipped with high pressure. Pour QUICSEAL 172 in a mixing vessel and add QUICSEAL 171, the catalyst component into the vessel. Mix with a slow speed mechanical mixer until homogeneous. The mixed material is moisture-sensitive; long exposure to atmosphere or rain must be avoided. A skin may form on the surface if the mixture is not used immediately. The mixture should be used within 1 hour to provide for an optimum foam structure

SURFACE PREPARATION

Remove any loose mineral on the surface to identify the exact location and the width of the crack to be injected. Cracks shall be seen clearly in order to layout the drilling patterns for the injection holes. The depth of the drilled holes shall be approximately half the thickness of the concrete. The diameter of the drilled holes shall be 13mm to 16mm, depending on the packer used. The angle of the holes shall be approximately 45 degrees or less to the surface and towards the crack. The holes shall be drilled staggered from one side of the crack to the other to assure a higher percentage of coverage. The distance between each drilled holes shall vary from approximately 15 to 60cm according to the width of the crack. The wider the crack, the further apart are the drill holes. Experience comes in handy when deciding how far apart to drill the injection holes.

APPLICATION

It is recommended to flush the crack with water prior to injection to improve the subsequent penetration of the injection resin into thick wall.

Transfer the mixture to the hopper and begin the injection at the point of highest resistance to ensure good penetration. Start from the lowest point on a vertical crack and the narrowest area on a horizontal surface.

The packers shall be removed within 24 hours and the holes shall be patched. If necessary, remove the excess cured grout that flowed out from the crack using a grinder.

CLEANING

Once the injection work is completed, clean the pumps and injection devices using hydrocarbon solvents like ketones, thinner or xylene.

TYPICAL TECHNICAL DATA

QUICSEAL 172 Q-Stop PU	
Consistency	Liquid
Color	Brown
Specific Gravity @ 23°C	1.14 – 1.16g/cm^3
Viscosity	< 420cps
QUICSEAL 171 Q-Stop Catalyst	
Consistency	Liquid
Color	Pinkish
Specific Gravity @ 23°C	1.01 – 1.03g/cm^3
Viscosity	< 40cps

Characteristics	Parts by weight 100 : 1	Parts by weight 100: 5	Parts by weight 100 : 10
Cream Time, seconds	30	26	24
Free rise time, seconds	720	270	180
Volumetric expansion	6 times	19 times	30 times

QUICSEAL 172

Q-Stop PU

PACKAGING

QUICSEAL 172 is available in 20kg pail
QUICSEAL 171 is available in 1kg bottle

Storage

The shelf life of QUICSEAL 172 is 12 months when stored unopened, and kept in a cool and dry place. Storage temperature shall be between 10 deg C – 38°C. Failing to comply with the storage condition may shorten the shelve life of the product

HEALTH & SAFETY

Avoid eye contact and unnecessary skin contact, as the product is alkaline. Gloves, goggles and dust mask should be worn. Wash thoroughly after handling product. In case of eye contact, flush with plenty of clean water. Seek medical help immediately. Please refer to our Safety Datasheet prior to using the product.

IMPORTANT NOTES

The information set forth herein is furnished free of charge in good faith and is based on technical data that QUICSEAL considers to be reliable. This information is intended for used by persons having technical skill and at their own discretion and risk. Information contained in this product sheet conforms to the standard detail recommendations and specifications for the installation of QUICSEAL products as of the date of publication of this document. QUICSEAL makes no other warranties and assumes no liability, expressed or implied, as to the architecture, engineering or workmanship of any project. To ensure that you are using the latest, most complete information, please contact ARDEX-QUICSEAL

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