

DATA SHEET

227

3K P/U EXTERIOR VERTICAL STONE BINDER

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V1-28/11/2014

DESCRIPTION

- 227 is a 3-component Polyurethane Elastomer designed as a vertical stonebinder for exterior exposure. When cured the system is rigid and does not yellow when exposed to sunlight.

MIXING

- Care should be taken that mixing ratios are correct and that the correct volumes of each component are dispensed. Off-ratio mixes will result in foaming or sticky surfaces. It is recommended that once opened the entire containers are used as soon as possible. Beware of moisture contamination.
- Clean the equipment with 701 immediately after use, whilst still liquid, as the cured resin can only be removed by mechanical means.

STORAGE AND STABILITY

- 227 PU Binder is hygroscopic and containers must be tightly resealed after opening. The presence of small bubbles in the cured film is an indication of water absorption in the polyol components. Any material decanted and to be used for processing should not be allowed to stand exposed to air, but rather be used immediately. When containers are opened and not all used, the containers should be purged with dry air or nitrogen and tightly resealed. A shelf life of 12 months from date of delivery can be expected when stored unopened at normal in-door ambient temperatures (20 – 25°C).
- The components will react with atmospheric moisture. The containers should be stored with the seals intact and opened containers used first. The reaction with moisture / water can lead to dangerous build up of pressure in the drums. Therefore, partially used containers must be tightly re-sealed immediately after use to prevent ingress of moisture. It is recommended that these drums be purged with dry air or nitrogen. Empty drums should not be closed and for safety reasons a hole should be made in the container.

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MIXING RATIO WITH QUARTZ AGGREGATE

- A) PU Binder Base: 0.645kgs
- B) PU Rubber Binder Activator: 0.075kgs
- C) Thickener: 0.030kgs
Total: 0.750 kgs
- D) Quartz Aggregate: 12.500 kgs

SPECIAL NOTE:

Use EXT Trowel Aid 708-00. Do not use water to wet the trowel during application.
Ensure that the quartz aggregate is dry.

SAFETY AND HANDLING

- The Base Component contains a small amount of tin based catalyst. Keep away from foodstuffs. Protective clothing should be worn and contact with eyes and skin avoided. The Activator Component should be treated as an diisocyanate and the usual precautions should be exercised when handling this family of chemicals. Inhalation of fumes should be strictly avoided and protective masks should be worn. Refer to the 16 point Safety Data Sheet.
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TECHNICAL DATA

TYPICAL PROPERTIES OF PU BASE COMPONENT

VOLUME SOLIDS	: 56%
DENSITY	: 1.04 (\pm 0.02) @ 25°C
APPEARANCE	: Viscous hazy polyol component with catalyst
SHELFLIFE	: 12months

TYPICAL PROPERTIES OF PU ACTIVATOR COMPONENT

VOLUME SOLIDS	: +/- 75%
DENSITY	: 1.07 (\pm 0.02) @ 25°C
APPEARANCE	: Clear/ Slhaze
SHELFLIFE	: 12months

TYPICAL PROPERTIES OF PU THICKENER

VOLUME SOLIDS	: 100%
DENSITY	: 2.2 (+/- 0.02 @ 25°C)
APPEARANCE	: Fluffy powder
SHELFLIFE	: 12months

TYPICAL PROPERTIES OF MIXED SYSTEM

MIX RATIO	: Parts by Weight
BASE COMPONENT	: 86%
ACTIVATOR COMPONENT	: 10%
GELL TIME	: +/- 1.5 hrs @ 25°C
TACK FREE TIME (With Quartz)	: +/- 45min @ 25°C
FULL CURE	: 5-7 days @ 25°C
APPLICATION TEMP	: 10- 35 °C
WASH-UP	: 701 (WSB)

The pot life and cure will depend on the temperature of the components. Thin sections will take longer to cure. Higher material and ambient temperatures and higher humidity will reduce the gel time/setting times.



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