Polycrete 2020

Winged Seal Systems

Description

Polycrete 2020 is an adhesive paste used in conjunction with our Polycrete 1600 nosing material. It is engineered for use as a bedding into which the wing of the expansion joint seal. The Polycrete 1600 nosing material is then installed on top of the 2020 application while both components are "wet."

The Polycrete system outperforms traditional materials such as concrete, epoxies and asphalt. These materials have historically shown breakdown due to cracking and have allowed moisture and salts to penetrate the concrete surrounding the expansion joint system. If moisture and salt travel down through the joint opening to the structure's support members, it may cause premature deterioration of those members.

The Polycrete System has a track record of excellent performance. They are used to anchor our extensive line of expansion joint products, including applications with the CR-Series, DW-Series, and WM-Series winged seals, as well as our Plaza Deck Systems.

Physical Properties

Polycrete 2020 is an ambient cure two-part ambient-cured epoxy material. The Polycrete 2020 meets the physical property requirements shown in Table 1.

TABLE 1 – Physical Properties of Polycrete 2020

Physical Properties	Part A	Part B
Color	White	Black
Viscosity	Gel	Gel
Specific Gravity	1.5	1.0

Bond Strength (ASTM C 882-91)

Duration	Bond Strength by Slant Shear	Failure Mode
24 Hours	3,890 psi, 26.8 MPa	In Concrete
72 Hours	3,930 psi, 27.1 MPa	In Concrete

Pot Life

30 Minutes	59°F	25 Minutes	68°F	15 Minutes	86°F

Cure Rates	50°F	68°F	86°F
Gel	4 Hours	2 Hours	1 Hour
Hard to Touch	24 Hours	10 Hours	4 Hours
Fully Cured	2-3 Days	1.5 Days	1 Day

Features and Benefits

Ideal for Rehabilitation Work – The Polycrete system, used with our membrane, quickly replaces urethane wide joint products with little or no modification to the existing recess.

Permanent Header System – The Polycrete system provides durability under vehicular loadings, unlike other cement and epoxy products. Its elastomeric properties resist cracking, particularly in colder temperatures.

Performance Acknowledged by Prime Specifiers – Major specifiers throughout North America include Polycrete as a primary item for parking deck joint work.