

# ELASTOMERIC CONCRETE

## Polycrete Hot Applied



### Description

The “Hot Applied Polycrete Elastomeric header material was engineered for its elasticity and bond strength to concrete. It’s most popular uses include header material, end dam applications, and anchoring expansion joint systems to concrete.

This rugged material has elastomeric qualities that allow it to flex without cracking or causing failure of the bond. The resistance to vehicular wear has made Polycrete a popular choice for use on parking deck sand other open-air structures. The resistance to wear is due to the loading of the resins with pre-measured amounts of stone and gradations of sands. The resins remain flexible even at low temperatures.

Because the material has an elastomeric nature, it readily accepts impacting to the edges and surface of the slab. Polycrete dissipates point loads to the substrate below.

### Physical Properties

The Hot Applied Polycrete system consists of three (3) items: two resin components and a pre-measured blended bag of aggregates.

The material, either neat resins or with added aggregate, must be heated to 110° F. This heat process activates the chemical bond and assures a flowable product.

An overview of the physical properties is given in Table 1.



**Table 1 - Hot Applied Polycrete Physical Properties**

| Property                      | Method        | Requirements |      |
|-------------------------------|---------------|--------------|------|
|                               |               | Min.         | Max. |
| <b>7-Day Cure</b>             |               |              |      |
| Brittleness by impact, ft/lbs | See note 1    | 7            | -    |
| Tensile strength, psi         | ASTM D638-82a | 775          | -    |
| Tensile stress, psi           | ASTM D638-82a | -            | 500  |
| Ultimate elongation,%         | ASTM D638-82a | 200          | -    |
| Tear resistance, lb/in        | ASTM D624-81  | 150          | -    |
| Property                      | Method        | Min.         | Max. |
| <b>30-Day Cure</b>            |               |              |      |
| Brittleness by impact, ft/lbs | See note 1    | 7            | -    |
| Tensile strength, psi         | ASTM D638-82a | 1050         | -    |
| Tensile stress, psi           | ASTM D638-82a | -            | 900  |
| Ultimate elongation,%         | ASTM D638-82a | 95           | -    |
| Tear resistance, lb/in        | ASTM D624-81  | 220          | -    |