



# BELZONA® 4181

## For Heat Resistant or Acid Resistant Repairs to Concrete

### For Inorganic Acid Resistance

Concrete, because of its alkaline nature, is particularly susceptible to attack by inorganic acids. Whenever acid attack or mechanical damage creates the need for rebuilding as well as protection, this can now be achieved in one step using Belzona® 4181. In addition Belzona® 4181 is the ideal choice whenever there is a risk of impact damage or abrasion.

This totally novel trowelable material when exposed to inorganic acids, has the unique ability to form a protective surface barrier layer which further enhances its acid resistance. This is achieved using a complex acid catalysable hybrid resin system which also incorporates carefully selected close packing acid resistant fillers.

### For Heat Resistance

Another feature of Belzona® 4181 is its exceptional heat resistance. When exposed to heat, the product's sophisticated chemistry forms a densely crosslinked polymer matrix which maintains its strength at elevated temperatures. By post-curing prior to service, therefore, Belzona® 4181 can withstand service temperatures in excess of those normally undertaken by more conventional polymer-based concrete repair materials.

Wherever resistance to heat or inorganic acids is important Belzona® 4181 is the concrete repair material of choice.



SUPPORT BASES



CONTAINMENT AREAS



OVENS



LOADING DOCKS



CHANNELS



DRAIN AREAS

## The Unconventional Alternative.

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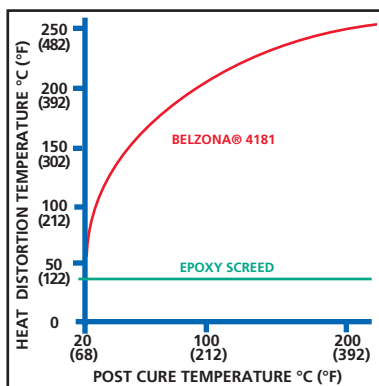




# BELZONA® 4181



BELZONA® 4000 SERIES MAGMA POLYMERS



## Safety in Use

- No solvent vapors.
- No fire risk.

## Versatility in Application

- Easily applied by float or trowel.
- Thin or thick areas can be applied as required and feather edged for perfect finish.
- In-service acid cure develops maximum acid resistance.
- Post-cure develops maximum heat resistance.

## Performance in Service

- Impact resistant.
- High mechanical strength - Compressive strength 9150 psi (63 N/mm<sup>2</sup>) rising to 14,000 psi (96 N/mm<sup>2</sup>) after post cure.
- Excellent resistance to Inorganic acids including
  - 98% Sulphuric acid
  - 36% Hydrochloric acid
  - 40% Phosphoric acid
  - 30% Nitric acid
- Resistant to heat, maintains strength up to 150°C (302°F).

## Permanency in Service

- Does not absorb water or chemicals. Will not be destroyed by frost or sub-zero temperatures.
- Minimal shrinkage irrespective of thickness applied, leading to stress-free repairs.
- Densely packed filler system provides excellent abrasion resistance.



BS EN ISO 9002 - 1994  
Certificate No. Q/09335

