



## STANDARDS OF PERFORMANCE

| PRODUCT   | DESCRIPTION  | TYPICAL USES   |
|---|--|--|
| <b>UNI-PUMP 55 ALK R</b><br>(Excellent rating in alkali cup tests from 1652 F. through 2012 F.) | 57% Al <sub>2</sub> O <sub>3</sub> , low cement with optimum combination of hot strengths and alkali resistance. | Non-metal contact areas such as upper sidewalls, roofs, stacks.                              |
| <b>UNI-PUMP 65 A</b>  | 60% Al <sub>2</sub> O <sub>3</sub> , low cement with unique AL additive package.                                 | All metal contact areas including hearths, sidewalls, hotwalls, bellybands, ramps and sills. |
| <b>UNI-PUMP 70 A</b>  | 70% Al <sub>2</sub> O <sub>3</sub> , low cement with unique AL additive package.                                 |  |

## SEVERE SERVICE

| PRODUCT  | DESCRIPTION  | TYPICAL USES  |
|--|--|---|
| <b>UNI-SHIELD 70 A</b><br>(#1 rating-4 Day Alcan Immersion Test at 1562 F.- 5% Mg) | 70% Al <sub>2</sub> O <sub>3</sub> , low cement with unique AL additive package and SiC & zircon fortified matrix. | All metal contact areas where superior performance is required to address multiple wear mechanisms including: abrasion, mechanical abuse, thermal shock, alkali attack, high temperatures & corundum. |
| <b>UNI-PUMP LC-80 HS A</b>   | 80% Al <sub>2</sub> O <sub>3</sub> , low cement with unique AL additive package.                                   |   |
| <b>UNI-PUMP 85 AL</b><br>(#1 rating-4 Day Alcan Immersion Test at 1562 F.- 5% Mg)  | 84% Al <sub>2</sub> O <sub>3</sub> , low cement with unique AL additive package.                                   |   |

## SPECIAL PRODUCTS

| PRODUCT                    | DESCRIPTION  | TYPICAL USES  |
|----------------------------|--|---|
| <b>UNI-PUMP LC-60 SC A</b> | 60% SiC, low cement with unique AL additive package.   | Excellent hot strengths & abrasion resistance with good thermal shock and alkali resistance for high wear areas such as ramps, sills, troughs and metal transfer. |
| <b>UNI-CAST SCZ</b>        | 60% SiC, low cement with zircon.   | Excellent hot strengths, abrasion, thermal shock & alkali resistance for high wear areas such as precast troughs, launders & metal transfer.                      |
| <b>UNI-PUMP AD-6 A</b>     | 60% Al <sub>2</sub> O <sub>3</sub> , andalusite-containing low cement with unique AL additive package. | Excellent thermal shock resistance in the 60% Al <sub>2</sub> O <sub>3</sub> classification.  |
| <b>UNI-CAST FS-6 A</b>     | 67% SiO <sub>2</sub> , fused silica, low cement with unique AL additive package.                       | Excellent for troughs, launders and similar areas where lower densities and thermal shock resistance is required.   |
| <b>UNI-CAST FS-81 A</b>    | 83% SiO <sub>2</sub> , fused silica, low cement with unique AL additive package.                       |   |

## PLASTIC OPTIONS

| PRODUCT                | DESCRIPTION  | TYPICAL USES   |
|------------------------|--|--|
| <b>UNI-RAM BLU J-A</b> | 65% Al <sub>2</sub> O <sub>3</sub> , mullite based, phos-bonded plastic with aluminum resistant additives. | Excellent choices for ramming and repairs of various metal contact areas, including tapholes, hearth perimeters, walls & burner areas. |
| <b>UNI-RAM 85 ESSA</b> | 78% Al <sub>2</sub> O <sub>3</sub> , bauxite based, phos-bonded plastic with aluminum resistant additives. |  |
| <b>UNI-RAM 85 P A</b>  | 83% Al <sub>2</sub> O <sub>3</sub> , bauxite based, phos-bonded plastic with aluminum resistant additives  |  |

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