



ALKON[®] CHEM PB 85

Aluminium Industry

PRODUCT DESCRIPTION

2 years of R&D were needed to deliver this phosphate bond 2-component castable combining a state-of-the-art chemical bonding system with high phosphate content and bauxite aggregate with maximum 6 mm grain size.

- Excellent resistance to aluminium corundum growth even if process temperature exceeds 1200°C
- Excellent non-sticking properties
- Excellent thermal shock resistance
- High mechanical resistance
- Good bond on existing lining
- No flash but still quick setting
- No dry-out constraints



TYPICAL USE & APPLICATION

The main usage of ALKON[®] CHEM PB 85 is medium size (1 to 15 ton) repairs in aluminium furnaces, where there is aluminium contact but not only: melting / holding / shaft furnace hearth or walls, burner block, ladle, etc.

It is preferred in aluminium contact areas needing high thermal shock resistance (like a furnace sill not protected by a cast iron plate) as well as high resistance to corundum growth at high temperatures.



In an 18-month test period, 200 tons were installed in more than 10 countries at 50 customer sites with 100% positive feedback.

DELIVERED VALUE

Saving production time: quick setting for quick installation, 48h dry-out if it is the only product used. For a typical repair of 10t in sill, belly band and spouts, metal to metal duration can be < 6 days. The product performance exceeds other quick installation/quick drying product solutions like sol-gel castable or gunning solutions.

Saving money: the product price, higher than hydraulic bond monolithic products, is largely compensated by immediate savings in shorter team and equipment mobilization & less gas consumption during dry-out, as well as long-term savings in product lifetime in strongest conditions.

Making your life easier:

- You can use this product in all areas, so no need to have several products in stock.
- This product shows high non wetting/sticking properties that will make your dressing off & cleaning process much easier.