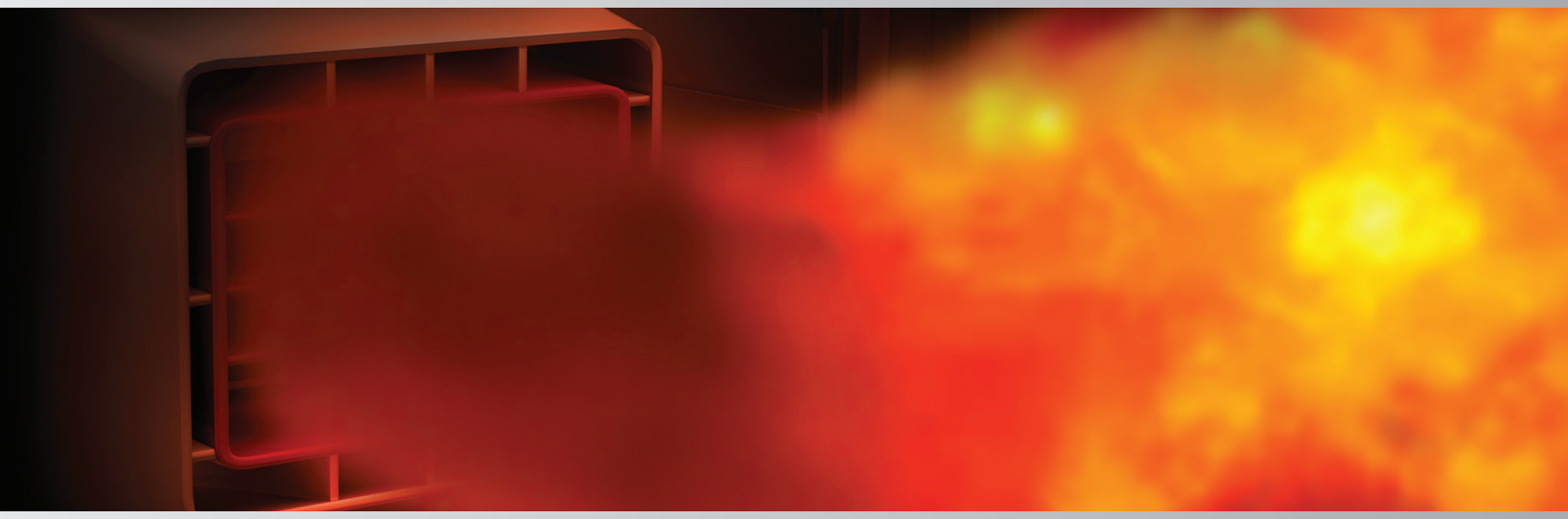
LOCTITE®



LOCTITE PC 7000™

High temperature abrasion resistant coating for long-term protection of components against abrasion up to 1200°C

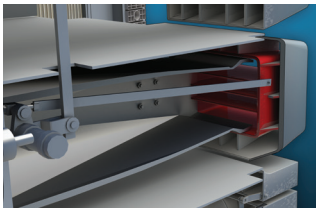
LOCTITE PC 7000™ High Temperature Abrasion Resistant Coating (HTARC) is a unique three-component, rapid setting, silica-based composite coating system which offers protection from abrasion up to 1200°C. This is a water-based, environmentally responsible system. It bonds well to porous substrates like concrete, refractory bricks, etc. (Metal surfaces need to be reinforced with metallic mesh before coating application.)

Benefits

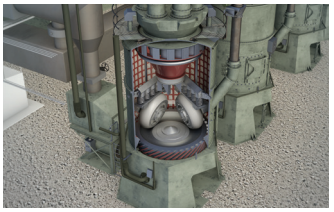
- **Up to 2 X protection** from high temperature abrasion
- **Cost-effective:** Better life, more efficiency
- **Thermally insulating:** Helps protect surface distortions and softening due to furnace heat

Application Areas

- **Coal burner tips splitter section and inner shrouds**



- **Coal burner nozzles**



- **Coal mill internal components**

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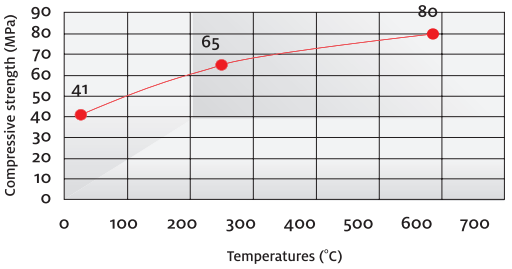
Product Characteristics

- Pot life - 25-30 min.
- Recommended cure (handling strength) - 24 hrs. @ 25°C + 10 min. @ 350°C
- Firing temperature - 1200°C
- Thermal stability - wt. loss - (800°C-24 hrs. exposure) - 0%
- Taber™ abrasion - H18-1000 cycles (firing to 400°C) - 0%
- Drop impact performance - 3 mm coating (3 mm thick SS panel/SS mesh reinforcement) - > 160 in-lbs. (5 drops)
- Rockwell hardness @ 25°C (ASTM D-785) - 35 HRA

Compressive strengths at increasing Temperatures (ASTM D-695)



Splitter section of burner tip with spot-welded wire mesh. Ready of PC-7000™ coating

Burner tip splitter coated with PC 7000™

PC 7000™ coated burner tip after 1 full year of service life. (50% of coating still remaining)

Application Procedure

- Prepare the application surface by mechanical abrasion - (grid blasting/grinding). After surface preparation, ensure the surface is clean and free from dust, etc.
- Spot weld stainless steel diamond pattern wire mesh over the work piece as per the application requirement.
- Add Part A and B to the container. Mix until uniform consistency and milky white color.
- Add ceramic fillers incrementally to liquid resin while mixing vigorously with air mixer for 2-3 minutes until fillers are dispersed evenly. Use the entire contents of the kit. Mix it well to prepare the homogenous mixture. No partial mixing is allowed.
- Apply fully mixed material to prepared surface within 30 minutes of mixing. Ensure 100% filling in mesh as per the required application thickness.
- Allow coating to cure at room temperature for 24 hours. After room temperature cure, heat cure at 350°C for 10 minutes or 4 hours at 100°C.

Need It Now?

LOCTITE PC 7000™
High Temperature Abrasion Resistant Coating
10 kg Kit Pack
IDH - 1890656

10 kg kit & Three-component system

Call 1.800.LOCTITE (562.8483) for more information, or visit www.henkelna.com/pc7000

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