



BG HITCOAT® - thermal and corrosion resistant ceramic coating with operating temperatures up to 1,900 °C increases life of both new and existing refractory bricks, concrete and ceramic linings as well as metal substrates and fibrous insulating linings of the industrial equipment and prevents scaling, ablation, clinkering & caking up as well. Excellent emissivity (capability to absorb and re-radiate the heat).

PROPERTIES

- ⇒ Thermal Resistance up to 1,900 °C
- ⇒ Burn-off Resistance
- ⇒ Chemical Resistance in Highly Corrosion Gas Environment
- ⇒ Emissivity close to "black body" over 500 °C at technical important wavelengths
- ⇒ Superior Thermal Shock Flexibility
- ⇒ Abrasion Resistance

BG HITCOAT® PROVIDES

- ⇒ Extended serviceable life of refractories incl. Fibrous (up to 5times)
- ⇒ Effective sealing of porosity in refractories against chemical and physical attack
- ⇒ Preventing internal damage of refractories caused by chemical reactions in pores
- ⇒ Essential increasing of fibrous refractories' mechanical resistance
- ⇒ Reducing initial shrinkage of fibrous refractories by over 50%
- ⇒ Corrosion protection of metals in acidic and high temperature environments
- ⇒ Heat efficiency improvement by making heat flow more uniform, by transferring more heat into coils instead of into flue gases and chimney

APPLICATION

- ⇒ **BG HITCOAT®** is applied at ambient temperature by spraying or brushing to the clean and sand blasted substrate
- ⇒ **BG HITCOAT®** is water-based coating containing no chemical solvents and volatile organic contaminants (Zero VOC's)
- ⇒ **BG HITCOAT®** obtains its operating properties after short time curing at temperatures above 500 °C

AREAS OF APPLICABILITY

- ⇒ Power station equipment
- ⇒ High temperature refinery process heaters and petroleum refining equipment
- ⇒ Waste recovery systems
- ⇒ Waste incinerator units
- ⇒ Sulfur recovery units
- ⇒ Burners
- ⇒ Coke ovens
- ⇒ Kilns and calciners
- ⇒ Boilers
- ⇒ Heat exchangers
- ⇒ Economizers, reactors
- ⇒ Hot gas scrubbers
- ⇒ Other chemical and technological equipment
- ⇒ Industrial chimney liners



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