



**BOVIA 271 II
REFINERY
GRADE
FIRE
PROTECTION**



PRODUCT DESCRIPTION

BOVIA 271 II is a high density, exterior grade, heavy duty, cementitious fireproofing material ideal for refinery plants. This passive fire protection system can provide up to 4 hours of fire protection, that meets design specification of UL1709 (Underwriters Laboratories Inc.) for on-shore and off-shore refinery plants. Developed through extensive research, BOVIA 271 II provides remarkable physical properties that promote high quality and prolonged durability.

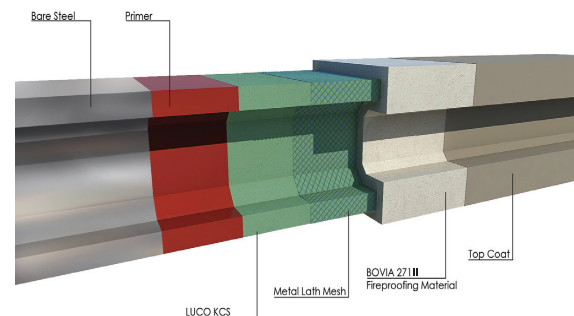
PERFORMANCE EXCELLENCE

A limited number of products are able to endure the environmental conditions of oil & gas plants under the “Hydrocarbon Curve” and ‘Jet Fire’ tests. BOVIA 271 II has successfully been tested and certified for both the Hydrocarbon and Jet Fire tests (ISO 22899) by UL. BOVIA 271 II has been developed through fine-tuned chemistry that provides extreme fireproofing and protection, resistant to damage, user-friendly application, and capacity to withstand various climate conditions. BOVIA 271 II can be spray applied with wide a range of conventional plaster pumping equipment along with paddle mixers and most continuous mixers.

MATERIAL TECHNOLOGY

BOVIA 271 II SFRM systems are found throughout the world’s petrochemical facilities providing fire resistance to steel columns/beams, pipe racks, vessel skirts and supports and is excellent in:

- Low water consumption
- Low hydration heat
- Low drying shrinkage
- Low crack
- High long-term strength
- High bond strength



Physical Performance Properties

CHARACTERISTIC	TEST METHOD	TESTED PERFORMANCE*
Density	E605	724 kg/m ³ (45pcf) ± 10%
Durometer Hardness (Shore D)	D2240	40
Surface Burning	E84 (UL723,CAN/ULC-S102)	Flame: 0 Smoke: 0
Combustibility	E136	Non-combustible
Compressive Strength	E761	559psi (3,854 kPa)
Thermal Conductivity	C518	0.129 W/mK
Fungal Resistance	G21	0/None

Technical Data

Color	Light Gray
Theoretical Coverage at 28mm thickness	62m ² /tonne (15Bd. Ft./bag)
Thickness	Depends on desired rating and assembly
pH Value	10-12
Voc Compliance	0.0g/L (EPA Method 24)
Outgassing Analysis, ATD GC-MS(50°C @30mins.)	<12ppmw(ug/g)
Storage	Dry, Covered, Off-Ground
Shelf Life	12 Months