



TUFFLOOR TILES

PRECAST HIGH-TEMPERATURE FLOORING



Global **Refractory** Solutions



STRONG AND VERSATILE MATRICAST TUFFLOOR

TUFFLOOR is designed for areas subjected to extreme thermal cycling and intermittent exposure to liquid metal spills, dross and slag. It is a versatile product that may be installed as a complete floor, over existing (or new) concrete, or as precast tiles.

TUFFLOOR has over 20 years of proven performance in ferrous and non-ferrous foundries, primary metal production facilities (aluminum, steel, iron, zinc, copper, ferro-alloys), rolling mills and many additional hot flooring applications.

The TUFFLOOR product family includes: **MATRICAST TUFFLOOR TUFFLOOR 7, TUFFLOOR HT and TUFFLOOR HT ACX**

Benefits include:

- Fast project turn around time due to its early strength development
- Exceeds the cold crushing strength of conventional concrete
- Reduces maintenance time and expense
- Safer working surfaces
- Minimizes wear on mobile equipment
- Custom colors available
- Excellent freeze-thaw characteristics



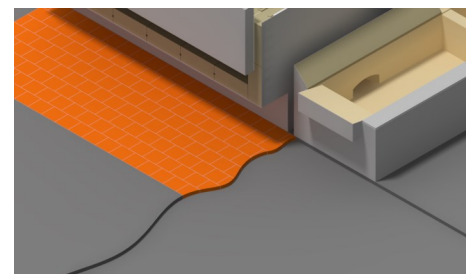
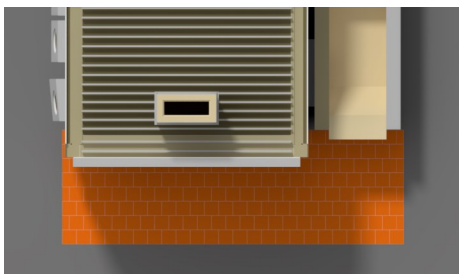
TUFFLOOR **Standard Concrete**
Thermal Cycling to 1400°F (760°C)

DESIGN ENGINEERING

Allied's team of experienced engineers uses advanced software to create the best TUFFLOOR tile system to meet your application requirements.

TUFFLOOR tile flooring is applicable in virtually any area that would be a candidate for cast-in-place TUFFLOOR.

Tiles may be ordered in a wide range of colors using additives that will not fade or discolor.



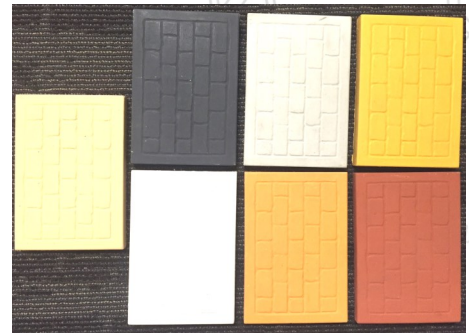


READY TO USE, CUSTOM ENGINEERED PRECAST TUFFLOOR TILES

TUFFLOOR precast tiles arrive ready for installation. Like cast-in-place TUFFLOOR installation areas, TUFFLOOR tile designs are manufactured to fit variable size and geometry flooring areas. Precast tiles provide a hassle-free installation method, eliminating the need to wait on strength development of cast-in-place TUFFLOOR.



Custom floor tiles available for heavy load applications



A variety of colors available

RECOMMENDED USE

FOUNDRY

Channel and Coreless Furnace Decks | Furnace Pits | Mold Shake-Out Areas | Ladle Pouring Station Floors | Cupola Pits | Aisle Ways | Pig Cooling Bays | Pouring Line Floors | Slagging Station Floors

ALUMINUM

Furnace Area Floors | Casthouse Floors | Die Cast Shop Floors | Hot Slab and Coil Storage Areas | Dross Cooling and Transfer Area Floors | Ladle Pads and Pouring Station Floors

STEEL

COKE OVEN: Coke Oven Wharfs | Quench Stations | Oven Tops

BLAST FURNACE: Casthouse Floors | Tuyere Platform Floors | Track Areas at Hot Metal | Pouring Stations

BOF: Hot Metal Pouring Station Floors | Slag Skimming Station Floors | Furnace Deck | Ladle Teaming Area Floors

ARC FURNACE SHOPS: Ladle Preheat Station Floors | Furnace Decks and Pits

OTHER STEEL: Desulfurization Station Floors and Decks | Sinter Machine Area Floors and Decks | Ladle Metallurgy Station Floors and Decks | Degasser Station Floors and Decks | Slab Mill Runout Table Floors

COPPER

Decks and Floors | Pre-heating Stations | Spill Containment Pads Around Furnaces | Spill Containment Pads at Casting Stations | Splash and Heat Panels | Mold Preheating and Cooling Areas



INSTALLATION GUIDE

REQUIREMENTS FOR INSTALLATION:

- Level concrete surface with a subgrade modulus of 68000 kN/m³ (250 pci) or greater*
- BRIKSET mortar to be used between TUFFLOOR precast tiles, 3 mm (0.12 in) thick (max. 6mm (0.25 in))
- Skim coat concrete subgrade with BRIKSET mortar at maximum of 3 mm (0.12 in) thick to level surface.
- Offset tile joints are optimal.
- Field cut TUFFLOOR precast tiles as required.

*Contact us for your custom engineered flooring system if your area does not meet these requirements.

Floor Size	Material required	
	TUFFLOOR Tiles*	BRIKSET Mortar
10 m ²	52	4 Pails
15 m ²	77	6 Pails
20 m ²	103	8 Pails
25 m ²	129	10 Pails
30 m ²	155	12 Pails
35 m ²	180	14 Pails
40 m ²	206	16 Pails

*Accounts for 3% overage

TUFFLOOR Tiles + BRIKSET mortar

Each TUFFLOOR tile measures 450 x 450 x 100 mm (17.72 x 17.72 x 3.94 in) and weighs 43 kgs (94.6 lbs)

BRIKSET is a wet Super Duty air setting mortar suitable for applications up to 1649°C (3000°F).

PACKAGING INFORMATION

Tiles:

6 layers, 4 precast tiles/layer = 24 precast tiles/pallet

Pallet Weight = 1032 kgs/pallet (2270 lbs/pallet)

Full Pallet Dimensions = 900 x 900 x 600 mm (35.43 x 35.43 x 23.62 in)

BRIKSET:

36 pails/pallet; 25 kgs/pail (55 lbs/pail)

Pallet Weight = 898 kgs (1980 lbs)

