



CASE STUDY:

TUFFLOOR® CAST IN PLACE

EQUIPMENT

Pot room and storage area floor

PRODUCT

TUFFLOOR®

APPLICATION

- Loading and unloading area for aluminum transport crucibles
- Storage area for used anodes and waste containers used in the pot cleaning process
- Transport area for crucibles, trucks, and forklifts
- TUFFLOOR® has been installed to replace tiles which are 30 cm (11.8 in) by 30 cm (11.8 in) by 3 cm (1.2 in) thick. The tile lies over sand bed about 9 - 15 cm (3.5 - 5.9 in) thick.

INSTALLATION

- 6.9 m (22.6 ft) by 5.85 m (19.2 ft) = 40.4 m² (433.9 ft²)
- Actual cast amount = 9,000 kg (19,836 lb)
- Thickness of TUFFLOOR® = 8 - 10 cm (3.2 - 3.9 in) on level one, and 10 - 15 cm (3.9 - 5.9 in) on level two
- TUFFLOOR® thickness variation is due to sub floor having two elevations

RESULTS

- Actual service time - 1 year, 3 months (still in service)
- Appearance present day – shows almost no wear



TUFFLOOR® after casting



TUFFLOOR® in service

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Allied Mineral Products, Inc. supplies an entire line of monolithic refractories for the metals industry. For more information or a complete evaluation of your refractory requirements, please contact your local Allied representative.

