CASE STUDY:

TUFFLOOR® HT INSTALLED AS A SPLASH SHIELD FOR A MELTING FURNACE

EQUIPMENT

- Coreless induction furnace splash shield
- Capacity: 1,000 kg iron/steel

PRODUCT

- TUFFLOOR® HT

APPLICATION

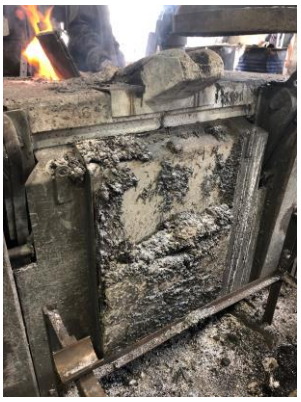
- TUFFLOOR® HT installed with 13.5% water
- Additional 1.5% 304 SS needles
- Used flexible 304 SS wire mesh for anchoring

INSTALLATION

- Customer requested repair to the original furnace splash shield with a refractory that would last at least 3-4 years before deterioration.
- Customer performed the installation with a regular concrete mixer, two batches of 62.5 kg of TUFFLOOR® HT, addition of 1.5% of 304 SS needles (1.0 kg) and 13.5% water addition (8.4 lt)

RESULTS

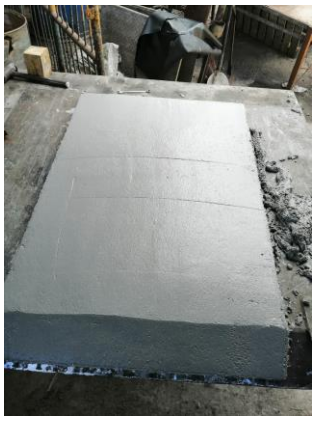
- At one month, the splash shield looked to be in very good condition
- Performance of TUFFLOOR® HT lasted longer than the refractory provided by the OEM



Damaged equipment with original OEM refractory

Shield cleaned, new screws as anchors and base for wire mesh

(Top left) initial layer against the splash shield. (Top right), mesh installed after initial layer. (Bottom left), casting second layer.



Finished splash shield

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.

Reference# CS_TUFFLOORHT_CORELESS_FRONT COVER_2022
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