

MS - AD - MasterTop 548 bonded with MasterBrace ADH 1414 - 05/2019

METHOD STATEMENT: MasterTop 548 bonded with MasterBrace ADH 1414 wet to dry epoxy

Fully bonded screed APPLICATION (APPLICATION THICKNESS AT >10MM)

1. SURFACE PREPARATION:

All surfaces shall be thoroughly cleaned and prepared. Remove all laitance, weak or friable concrete, dust, curing compounds, floor hardeners, oil, grease, fat, bitumen and paint.

- 1.1. All laitance should be removed by mechanical scarification, grit blasting, high pressure water jetting or other approved methods.
- 1.2. NOTE: Do not use preparation methods such as bush hammering, that crush the aggregate, leaving behind a weak surface.
- 1.3. New concrete should have cured until the shrinkage and moisture movement is low. Surfaces heavily impregnated with oils etc. should be degreased and grit blasted or mechanically scarified to remove the contaminated surface. All curing compounds should have disintegrated or be removed, and application carried out only onto a clean, dust free surface.

2. MIXING:

- 2.1. Transfer the entire contents of the smaller container of **MasterBrace ADH 1414** REACTOR COMPONENT to the larger **MasterBrace ADH 1414** BASE COMPONENT tin and thoroughly mix, using a slow speed drill with a paint mixing paddle until uniformity is achieved. This normally takes 2- 3 minutes.
- 2.2. Do not attempt to part mix the contents. Do not attempt to thin MasterBrace ADH 1414.

3. APPLICATION:

- 3.1. As the pot life is limited, work should proceed quickly once mixing is complete.
- 3.2. **MasterBrace ADH 1414** shall be applied evenly across the exposed concrete surface with a clean short haired paintbrush, paint roller or a steel hand trowel for large flat floor areas.
- 3.3. The contents of the can shall be used within the pot life of the mixed material. Ideally pour the mixed epoxy resin into shallow paint trays or similar as this will increase its pot life.
- 3.4. Once applied keep the surface clear of all traffic and debris and allow the **MasterBrace ADH 1414** film to become tacky to the touch (45 -90 minutes after mixing and application depending upon ambient temperatures (high temp = shorter working time).
- 3.5. Once the **MasterBrace ADH 1414** has become "tacky" immediately apply the cementitious floor topping / repair material as per normal construction practices. DO NOT allow the epoxy film to become tack-free before overlaying as this will render the bonding ineffective. If this should happen abrade the surface and re-apply the **MasterBrace ADH 1414**.
- 3.6. Add 2 L of water into a forced action mixer, slowly add the contents of the 25kg bag of **MasterTop 548** while the mixer is running and mix for 1-2 minutes. The consistency of the mixed screed mortar should be stiff-plastic. Avoid water overdose during the mixing process of the **MasterTop 548** as this can affect the compressive and flexural strength of the during the curing period.
- 3.7. The recommendations set out in BS 8204-1 should be followed during the application of **MasterTop 548.**



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- 3.8. **MasterTop 548** mixed mortar screed is spread over the base with a shovel, trowel or surface scraper, fully compact the **MasterTop 548** and rule off with a screeding bar, (insufficient compaction of the **MasterTop 548** will result in low strength of screed).
- 3.9. Immediately apply the **MasterTop 548** mixed mortar screed onto the still "sticky" **MasterBrace ADH 1414** ensuring sufficient compaction of the **MasterTop 548** mixed mortar screed is maintained, striking off and final screed finishing must be accurate enough to meet the requirements of the flooring specification / requirements. Wood or plastic float finishes may be acceptable but generally a closed, flat steel trowelled finish is preferred. Power trowelling is acceptable but must be carried out by experienced masons and the required surface regularity should be maintained throughout.
- 3.10. Conduits and pipes running through the screed must be mechanically fixed to the substrate and reinforced by using 19g wire mesh ("chicken wire") wrapped over them. Minimum screed cover of 30mm must be ensured.
- 3.11. If a day joint is to be formed Wet levels must be trimmed back to vertical fully compacted edge prior to hardening.
- 3.12. The applied screed should be covered with polythene sheet immediately following finishing (with all leading edges lapped and secured), and left covered for a minimum 3 days, covering by polythene is essential to prevent premature drying. Failure to carry out adequate protection early enough can lead to edges curling and/or a dry friable surface through moisture loss.
- 3.13. The **MasterTop 548** fast setting mixed screed mortar is walkable after 1 day and can be tiled after 3 days.

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