

11th October, 2021

mastaTEX[®] Concrete
Geosynthetic Cementitious Composite Matting (GCCM)
HYDRATION GUIDELINES



- The optimal water-to-cement ratio for GCCM is 1:2 – i.e. 1 liter of water for every 2 kg of matting.
- The best results are obtained using the spraying method.
- The use of a strong water jet on GCCM may result in damage to the internal structure of the mat, so this is not recommended.
- It is recommended to use water that conforms to the mortar water standard, but water from any source can be used after testing. Also sea water is suitable.
- GCCM must not be moved after the hardening process has begun.
- Do not walk on the GCCM after hydration until it is hard enough.
- Any disturbance of GCCM after its hydration may result in deterioration of its properties.
- The setting time of GCCM is 90 minutes after hydration.
- GCCM hardens within 24 hours but reaches full strength for one month.
- The setting time will be reduced in hot climates.

- If the GCCM is not moistened properly, the rehydration process should be repeated.
- The hydration of GCCM depends on the conditions in its surroundings. For example, in hot weather, when water evaporation is too fast, the hydrated GCCM should be covered (e.g. with foil/builders film) to ensure the right moisture level. GCCM should be covered for at least 24 hours.

NB: We recommend using water compliant with harmonized standard PN-EN 1008: 2004 which ensures good concrete binding.

Yours Sincerely,



Polyfabrics Australasia