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Exposed aggregate areas and photocatalytic efficiency of photocatalytic aggregate mortar

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Table 1 Chemical composition of PC and aggregates used in this study

| Test | Chemical composition, % by mass | | | | | | | | | |
|--|---------------------------------|------------------|--------------------------------|--------------------------------|------|------|------------------|------------------|-------------------|-----------------|
| Material | CaO | SiO ₂ | Al ₂ O ₃ | Fe ₂ O ₃ | MgO | MnO | TiO ₂ | K ₂ O | Na ₂ O | SO ₃ |
| PC (CEM I) | 60.39 | 18.64 | 4.33 | 2.66 | 1.03 | 0.04 | 0.22 | 0.62 | 0.43 | 4.65 |
| Quartz Sand | 0.29 | 89.42 | 0.49 | 0.07 | 0.04 | - | 0.02 | 0.03 | 0.04 | 0.08 |
| TiO ₂ Coated Quartz Sand | 0.04 | 89.06 | 0.37 | 0.09 | 0.02 | - | 0.36 | 0.02 | 0.08 | 0.02 |