

PHP泥浆在桥梁超长超大直径钻孔灌注桩施工中的应用

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摘要 PHP(partially hydrolyzed polyacrylamide)泥浆是一个特别适合于超长超大直径钻孔灌注桩施工的泥浆系统。制作原料、制作过程、循环系统及施工控制等是决定其经济性、高效性的关键因素。苏通大桥工艺试桩工程根据工程场区独特的地质、水文条件确定了适合该工程的PHP泥浆循环系统, 以实践证明采用该系统可以实现桩侧泥皮厚度小于1 mm、桩底沉渣厚度为0 cm。

关键词 [桥梁工程](#); [PHP泥浆](#); [苏通大桥](#); [钻孔灌注桩](#); [泥皮](#); [桩底沉渣](#)

分类号

APPLICATION OF PHP SLURRY TO DRILLING OF OVERLENGTH AND EXTRA-LARGE-DIAMETER BORED PILES

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Abstract

PHP (partially hydrolyzed polyacrylamide) slurry is especially suitable for the drilling of overlength and extra-large-diameter bored piles. Its economical efficiency and construction efficiency are dependent on the following key factors: manufacturing of raw materials, manufacturing process, cycling system and construction control. According to geological and hydrologic conditions of the site of Su-Tong Bridge, the testing pile project has adopted PHP slurry cycling system, which has been proved in the practice to have achieved thickness of mud cake around piles less than 1 mm and thickness of sediments at pile tip of zero.

Key words [bridge engineering](#); [PHP\(partially hydrolyzed polyacrylamide\) slurry](#); [Su-Tong Bridge](#); [bored pile](#); [mud cake](#); [sediment at pile tip](#)

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