

## 附土壤團粒化劑對紅壤抗蝕性及種子發芽影響之研究

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### 摘要

噴植工法之引進與應用於台灣迄今已三十餘年，噴植資材及噴植施工技術仍持續在改良與研發，而土壤團粒化劑係目前廣泛被應用之噴植材料。本研究選取由琉球引進，近年來常應用於921地震崩塌地噴植用之土壤團粒化劑為試驗材料，調配 1.63%、2.13%、2.63%、3.13%與對照組 0%等五種濃度配比進行試驗；在單純使用土壤團粒化劑而不添加其它資材的情況下，發現土壤團粒化劑噴附量濃度愈高，土壤 pH 值和幾何平均粒徑亦相對增大，且在低基質張力（0~2bar）時，保水性亦提高，但對飽和水力傳導度無顯著影響；然而當土壤團粒化劑濃度愈高，則紅土抗沖蝕性愈佳，但以百慕達草、相思樹為供試植物時，則種子發芽率及發芽勢皆相對降低。

**關鍵詞：**土壤團粒化劑、紅壤、發芽

## A Study of Polisoil Spray on the Laterite Erodibility and the Influence of Plant Germination

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### ABSTRACT

Hydroseeding has been applied for more than thirty years in Taiwan, its apparatus and materials have been continuously ameliorated and invented. However, currently the Polisoil (aggregating agent)

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