



254

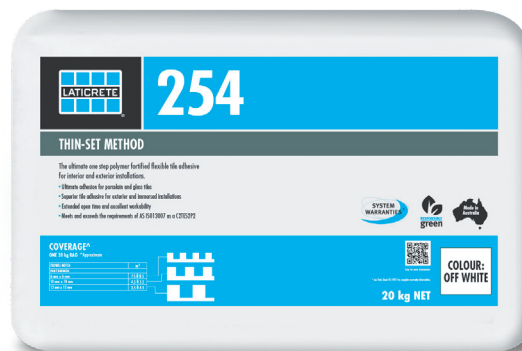
254 thin-set adhesive is the ultimate one-step, polymer fortified, product for interior and exterior installation of ceramic tile, reduced thickness porcelain, stone, quarry tile, pavers and brick. 254 adhesive is designed to just mix with water, has a long open time with unsurpassed adhesion and workability. May be mixed with PERMACOLOR® Select pigment packs for a coloured adhesive.

**Globally Proven
Construction Solutions**

254胶粘剂是一款可以快速安装的聚合物强增强型的产品，适用于室内外瓷砖、薄瓷、石材、路面砖等的安装，与水混合即可使用，具有开放时间长、粘接力优异和施工性能好等优点。此款产品可与雷帝多彩填缝剂颜料包混合，实现彩色胶粘剂。



Contractor: The Orchid Group
Artist: Valmai Pollard, "Wild Flowers"
Location: Shield St, Cairns, QLD



FEATURES/BENEFITS 产品优势

- Interior and exterior use
- High performance flexible cement based adhesive
- High tack, non sag
- Extended open time
- Easy to use – plastic and workable

USES 应用场景

Excellent for exterior and underwater applications as well as providing superior bond to exterior glue plywood (interior only) and concrete. Superior bond to masonry. The ultimate thin-set adhesive for reduced thickness porcelain, ceramic and glass tile.

室外及水下应用表现优异，室外用胶合板（仅室内）上粘接力极佳。与砌体的粘结良好。适用于厚度较薄的陶瓷、陶瓷和玻璃砖。

SUITABLE SUBSTRATES 推荐基面

- | | |
|---|--|
| <ul style="list-style-type: none"> Concrete
水泥 Concrete masonry
混凝土 Cement mortar beds
水泥砂浆 Cement plaster
水泥板 Ceramic tile and stones
已有的瓷砖石材 Suitable waterproof membranes
合适的防水膜 Brick masonry
砖石砌体 | <ul style="list-style-type: none"> Cement terazzo
水磨石 Gypsum wall board ^
石膏板 Cement backer board **
水泥纤维板 Plastic laminate ^
防火板 Properly prepared vinyl tile ^
合适的乙烯地板 Cut-back adhesives ^
需求量小的胶粘剂基面 Exterior glue plywood ^
室外用胶合板 |
|---|--|

^ Interior use only
^ 仅室内使用

** Consult cement backer board manufacturer for specific installation recommendations and to verify acceptability for exterior use.

**具体安装建议，请咨询水泥背衬板制造商，并验证室外使用的可行性。

PACKAGING/COLOUR 包装/颜色

- 20 kg bag; 56 bags per pallet
20千克/包 · 56包/托盘
- Off-White or White Cement
米白色/白色

MANUFACTURER 制造商

LATICRETE Australia Pty Ltd
29 Telford Street
Virginia, QLD 4014 Australia

Telephone: 07 3865 1599
Toll Free: 1800 331 012
Fax: 07 3865 2250
Internet: www.laticrete.com.au

Approximate Coverage 近似施工面积

(Based on product wet densities with a trowel at 45°)
基于产品湿密度·锯齿镬刀45度施工的数据。

- 7.5 – 8.5 m² with a 6 mm x 6 mm square notched trowel
6 mm x 6 mm的锯齿镬刀·7.5-8.5平方米
- 4.5 – 5.5 m² with a 10 mm x 10 mm square notched trowel
10 mm x 10 mm的锯齿镬刀·4.5-5.5平方米使用

Coverage will depend on how the trowel is used and surface regularity.
本理论用量仅作参考·实际施工面积与施工环境、基面情况和施工手法均有关系。

Shelf Life 储存

Factory sealed containers of this product are guaranteed to be of first quality for one (1) year if stored off the ground in a dry area.

在干燥、通风条件下储存·包装完好产品的保质期为1年*。

* High humidity will reduce the shelf life of bagged product.

*湿度大将会缩短袋装产品的储存期。

Limitations 注意事项

- Not for direct use over hardwood or strip wood flooring, particle board, Luan plywood or Masonite®.
不适用于伸缩缝或结构移动裂缝。
- Not for use over expansion joints or structural movement cracks.
不适用于伸缩缝或结构移动裂缝。
- Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not replacements for waterproof membranes. When a waterproof membrane is required, use a LATICRETE Waterproof Membrane.
瓷砖、路面砖、砖块和石材的粘合剂/胶粘剂、砂浆和填缝剂不能代替防水。如需防水膜·请选用雷帝防水膜。
- Note:** Surfaces must be structurally sound, stable and rigid enough to support ceramic/stone tile, thin brick and similar finishes. Substrate deflection under all live, dead and impact loads, including concentrated loads, must not exceed L/360 for thin bed ceramic tile/brick installations or L/480 for thin bed stone installations where L = span length.
注意：基层结构需完好、稳固·足以支撑瓷砖/石材等饰面材料。在各种动、静、冲击载荷或集中载荷作用下·基材的挠度在薄底法安装瓷砖时不得超过 L/360·在薄底法安装石材安装时不得超过 L/480·其中L=跨距(除非当地建筑规范中有更为严格的挠度限值要求)。

Cautions 注意事项

- Consult SDS for more safety information.
有关更多安全信息·请咨询SDS
- During cold weather, protect finished work from traffic until fully cured.
在寒冷天气期间·保护已完成的工程不受交通影响·直至完全固化。
- Use white adhesive for installing white or light coloured marble or stone.
安装白色或浅色大理石或石材请使用白色胶粘剂。
- This is not a colour controlled product and may not be suitable where specific white or off-white coloured adhesives are required.
颜色需根据需求情况而定·不适用于需要特定白色或灰白色胶粘剂的地方。
- Use LATAPOXY 300® Adhesive for resin backed tile or stone, installing green marble or water sensitive stone, agglomerates or tile.
安装绿色大理石或水敏石材、岩石或瓷砖·请使用雷帝环氧300胶粘剂。
- Wait 14 days @ 21°C after final grouting before filling water features and pools.
最终填缝后·需在21°C下等待14天·然后再填充水景和水池。

- Keep out of reach of children.
儿童不可接触。
- Contains Portland cement and silica sand. May irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin. In case of contact, flush thoroughly with water. Use rubber gloves and eye protection when handling product.
本品包含水泥和硅砂·可能会刺激眼睛和皮肤。避免接触眼睛或长时间接触皮肤。如果接触·用水彻底冲洗。施工时请使用橡胶手套和护目镜。
- Do not take internally. Silica sand may cause cancer or serious lung problems.
不可食用。硅砂可能导致癌症或严重的肺部问题。
- Avoid breathing dust. Wear an approved respirator in dusty areas.
避免吸入。在多尘区域佩戴经批准的呼吸器。
- Efflorescence is a normal condition of Portland cement. Contact LATICRETE for information on reducing the effects of efflorescence.
风化是水泥的一种正常状况。有关减少风化影响的信息·请联系雷帝。

TECHNICAL DATA 技术数据

VOC Product Information 产品信息

Green Building Council of Australia Green Star Office Design. VOC: <1 gram/Litre
澳大利亚绿色建筑委员会绿色之星办公室设计。挥发性有机化合物：<1克/升

Applicable Standards 适用标准

When tested in accordance with AS ISO 13007.1 & 2 is classified as a C2TES2P2.

ANSI A118.4, ANSI 118.11, ANSI 118.15

依据AS ISO 13007.1 & 2方法测试·满足C2TES2P2等级要求。ANSI A118.4, ANSI 118.11, ANSI 118.15

Note: Tested with 18 mm CD A bond Radiata Plywood.

Physical Properties 技术参数

Test 测试项目	Test Method 测试方法	Results 测试结果	Specification 规格
28 day Cure Porcelain Tile Shear Strength 28天玻化砖 剪切强度	ANSI A118.15 7.2.5	3.3–4.0 MPa	>2.76 MPa
Shear Bond Porcelain Tile Water Immersion 浸水后剪切强度	ANSI A118.15 7.2.4	1.7-2.4 MPa	>1.38 MPa
28 day Heat Aging Tile Shear Strength 28天热老化剪 切强度	ANSI A118.15 7.2.7	4.1-4.8 MPa	>2.76 MPa
28 day Cure Quarry Tile to Plywood Shear Bond 28天胶合板上石 材剪切强度	ANSI A118.11 4.1.2	1.7-2.1 MPa	>1.0 MPa

TEST 测试项目	TEST METHOD 测试方法	RESULT 测试结果
28 day Tensile strength 28天拉伸强度	AS ISO 13007.1 & 2	>2MPa
Water immersion 浸水后拉伸粘结强度	AS ISO 13007.1 & 2	>1MPa
Heat Ageing 热老化后拉伸粘结强度	AS ISO 13007.1 & 2	>2MPa
Transverse deformation 晾置时间	AS ISO 13007.1 & 2	>5 mm

Working Properties at 21°C 物理指标 (21°C)

PROPERTY 测试项目	VALUE 性能指标
Open Time 晾置时间	≥30 minutes
Pot Life 可操作时间	3 hours
Time to Heavy Traffic 可供轻载通行时间	24 hours
Wet Density 湿密度	1600 kg/m ³

Specifications subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions.

INSTALLATIONS 施工

Unless otherwise stated in this document, LATICRETE technical data sheets and guidelines, all work should be in accordance with AS3958.1 -2007.

除非本文件、雷帝技术数据表和指南中另有规定，否则所有工作应符合AS3958.1-2007。

Surface Preparation 基面准备

All surfaces should be between 4°C and 32°C and structurally sound, clean and free of all laitance, dirt, oil, grease, loose peeling paint, concrete sealers or curing compounds. Rough or uneven concrete surfaces should be made smooth with a LATICRETE Latex Portland Cement underlayment to provide a floated finish, CSP1 to CSP3. Dry, dusty concrete slabs or masonry should be dampened and excess water swept off. Installation may be made on a damp surface. 254 adhesive does not require a minimum cure time for concrete slabs however additional movement joints should be considered for more than normal shrinkage and creep. All substrates must be plumb and true to the required tolerances based on format size of tile.

基面温度应在4°C-32°C，结构应良好、清洁且无任何浮浆、污垢、油、油脂、松散的剥落油漆、混凝土密封剂或养护剂。粗糙或不平整的混凝土表面应使用雷帝乳液增强型砂浆进行找平处理，以提供CSP1至CSP3的抹灰饰面。干燥、多尘的混凝土板或砌体应湿润，并清除多余的水。可在潮湿的表面进行安装。254胶粘剂在混凝土板不需要额外固化时间，但应考虑其他移动接缝，以防止正常收缩和蠕变。根据瓷砖的规格尺寸，所有基板必须垂直并符合要求的公差。

Concrete Surface Profile should be between the ranges of CSP1 to CSP 3. Expansion joints shall be provided through the tile work, over all construction or expansion joints in the substrate. Follow Australian Standards requirements for Expansion Joints in AS3958.1 and 2. Do not cover expansion joints with adhesive.

混凝土表面应在CSP1至CSP3的范围内。应通过瓷砖工程在基层上提供伸缩缝。遵循澳大利亚标准AS3958.1和2中的膨胀节要求。不要用胶粘剂覆盖膨胀缝。

Mixing 材料制备

Place potable water into a clean pail and add 254 powder. Mix by hand or with a slow speed mixer to a smooth, trowelable consistency. Use approximately 4.6 – 5.2 litres of water per 20 kg bag for normal consistency thin-set. Allow adhesive to slake for 5-10 minutes. Remix without adding any more water or powder. During use, stir occasionally to keep mix fluffy. Do not temper with water.

在干净桶中加入适量水，然后倒入254胶粘剂。用手或用低速搅拌机搅拌至光滑均匀。正常情况下，每袋20 kg胶粘剂约使用4.6-5.2升水。静置5-10分钟，不再添加任何水或粉末的情况下，再次搅拌即可使用。使用过程中，偶尔搅拌以保持状态。不可再加水搅拌。

Note: For a slurry bond coat; mix 5.8 – 6 litres of water to a 20 kg bag of 254. Refer to TDS1009 for more information.

注：用于扫浆，一包20kg的254与5.8-6升水混合。更多信息请参阅TDS1009。

For reduced thickness porcelain adhesive; mix 5.2 – 5.6 litres to a 20 kg bag of 254 adhesive – ensure notched ridges still stand.

用于薄层瓷砖粘贴，一包20kg的254与5.2-5.6升混合—确保锯齿梳条高度。

For coloured adhesives mix with 2 boxes (4 individual pigment pouches) of PERMACOLOR® Select pigment packs for each 20 kg bag of 254 adhesive, White only. Check to ensure colour match and acceptability with grout prior to use.

有色胶粘剂，一包20kg的254（仅白色）与2盒（4个单独的颜料袋）雷帝多彩填缝剂颜料包混合。使用前，检查以确保颜色与填缝剂颜色匹配并可接受。



CSP1 to CSP3

Application 施工

Apply the adhesive to the substrate with the flat side of the trowel, pressing firmly to work into surface. Comb on additional adhesive with the notched side. **Note:** Use the proper sized notched trowel to insure full bedding and appropriate adhesive thickness under tile. Spread as much adhesive as can be covered with tile in 10-15 minutes or whilst adhesive is wet and tacky. Back butter large tiles > 200 mm x 200 mm to provide full bedding and firm support if required. Place tiles into wet, sticky adhesive and beat in using a beating block and rubber mallet to imbed tile and adjust level. Check adhesive for complete coverage by periodically removing a tile and inspecting bedding adhesive transfer onto back of tile. If the adhesive is skinned over (not sticky), remove and replace with fresh adhesive.

用锯齿镬刀的直边在基面及面材粘贴面上用力薄刮一层，并将适量浆料用锯齿镬刀边在基面上梳理出均匀、平直的条纹（请选用合适尺寸的锯齿镬刀，以确保胶粘剂厚度合适）。每次批刮面积应在10-15min可完成贴砖。200mm以上瓷砖须在背面进行批刮，确保粘贴强度。粘贴面材，用力揉压，或利用橡皮锤、振动器等工具将面材完全贴实。定期移除瓷砖并检查瓷砖背面胶粘剂是否完全覆盖。如胶粘剂不足（不粘），请去除并更换新的胶粘剂。

¹ United States Patent No.: 6,881,768 (and other Patents).

Grouting 填缝

Grout after a minimum of 24 hours curing at 21°C using PERMACOLOR® Select Grout; PERMACOLOR Grout; PERMACOLOR NS Grout; or, Smooth Grout. For greater stain & chemical resistance use SPECTRALOCK PRO Premium Grout or other LATAPOXY Grouts. For further information see TDS1400.

薄底法粘贴后，21°C下至少养护24小时方可进行填缝。低温或高温环境下应适当延长养护期。填缝材料建议使用雷帝水泥基或环氧基填缝剂。更多信息，请参阅TDS1400。

Tile on Tile work 施工注意事项

Existing ceramic tile must be firmly bonded to rigid floor construction. Tiled surfaces to receive tile must be prepared; shiny and highly glossed glazes should be removed by scarification; always cleaned to remove grease, wax, oil or any other contamination that will inhibit bond; clean with alkaline solutions like Tri-sodium Phosphate (TSP) or electric dishwasher powder and hot water after surface preparation (follow cleaning agent manufacturers safe use instructions) as required and rinsed with clean water and allowed to dry after cleaning.

现有瓷砖必须与刚性地面结构粘接牢固。瓷砖表面完好，光泽和高光泽的釉面应进行打磨，去除油脂、蜡、油或任何其他会抑制粘结的污染物。表面处理（遵循清洁剂制造商的安全使用说明），按要求用碱性溶液（如磷酸三钠（TSP）或电动洗碗机粉）和热水清洗，并用清水冲洗，清洗后晾干。

Apply a continuous skim coat, nominally 1.5 mm thick, of adhesive and vigorously work into the surface before combing additional adhesive over the skim coat using the appropriate sized trowel to suit the bedding requirements of the tile or panel. 使用合适尺寸的镬刀，在贴砖前用力批刮一层1.5mm厚的胶粘剂作为界面层，以满足瓷砖或面板的粘贴要求。

Cold Weather Note 低温环境施工注意事项

The setting of Portland cement adhesives, mortars and grouts are retarded by low temperatures. Protect finished work for an extended period when installing in cold weather. For faster setting adhesives use LATICRETE Rapid Setting Thin-Set Adhesives and Additives. Do not set tile when surface temperature is below freezing or when substrate is frozen.

低温会延缓水泥胶粘剂、砂浆和填缝的固化。寒冷天气下，应延长养护时间。为了快速固化，请使用雷帝快干型胶粘剂和添加剂。当表面温度低于冰点或基层冻结时，不得安装瓷砖。

Hot Weather Note 炎热环境施工注意事项

The evaporation of moisture in Portland cement adhesives, mortars and grouts is accelerated by hot, dry conditions. Apply to dampened surfaces and protect freshly spread mortar and finished work when installing in temperatures over 35°C.

水泥胶粘剂、砂浆和填缝中的水分蒸发会在高温干燥条件下加速。在温度超过35°C的环境下安装时，请润湿基面，对批刮的浆料和最终完成面进行防护。

Cleaning 清理

Clean tools and tile work with water while adhesive is fresh.

施工后材料还未固化前用水清理工具。

AVAILABILITY AND COST 购买途径和询价

Availability 购买途径

LATICRETE and LATAPOXY® materials are available worldwide.

雷帝产品在全国范围内均有销售

For Distributor information: 请拨打以下电话查询当地销售人员或经销商信息

Toll Free: 1800 331 012 Telephone: 07 3865 1599

For online distributor information, visit LATICRETE at www.laticrete.com.au

登录雷帝官方网站www.laticrete.com.au，就可在网上获得经销商信息。

Cost 询价

Contact a LATICRETE Distributor in your area. 请与当地销售人员或经销商联系。

MAINTENANCE 养护

LATICRETE and LATAPOXY grouts, sealers and sealants require routine maintenance and cleaning with a neutral pH detergent and water. See TDS 1113 for more information.

雷帝填缝剂、密封胶需进行日常维护，请使用中性洗涤剂和水进行清洁。更多信息请参见TDS 1113。

All other LATICRETE and LATAPOXY non-finish materials require no maintenance but installation performance and durability may depend on properly maintaining products supplied by other manufacturers.

所有其他雷帝非饰面材料无需维护，但安装性能和耐久性可能取决于其他制造商提供的产品的正确维护。

TECHNICAL SERVICES 技术服务

Technical assistance 技术支持

Information is available by calling: 请通过以下方式获得该产品的技术支持

Toll Free: 1800 331 012 Telephone: 07 3865 1599 Fax: 07 3865 2250

Technical and safety literature 技术安全资料

To acquire technical and safety literature, visit our website at www.laticrete.com.au

获取技术安全资料，请访问雷帝的网站www.laticrete.com.au

DISCLAIMER 免责声明

The information contained in this document is given in good faith and to the best of our knowledge is true and accurate.

本文件中包含的信息是真实准确的。

This information is subject to change without notice and it is the responsibility of the user to obtain up to date and current information.

信息如有更改，恕不另行通知，用户请自行获取最新信息。

The use of this product is beyond our control and LATICRETE is not responsible for any loss or damage arising from the incorrect use of this product.

如产品使用超出了我司建议范围，

雷帝不对因不正确使用本产品而造成的任何损失或损坏负责。

Efflorescence is a normal condition of Portland cement and is not covered by any warranty. The use of LATAPOXY 310 Stone Adhesive, LATAPOXY 300 Adhesive, LATAPOXY SP-100, SPECTRALOCK® PRO Premium Grout¹ and SPECTRALOCK 2000IG will not contribute to any noticeable efflorescence.

风化是水泥的正常状况，不在保修范围内。建议使用LATAPOXY 310石材胶粘剂、LATAPOXY 300胶粘剂、LATAPOXY SP-100、SPECTRALOCK®PRO填缝剂¹和SPECTRALOCK 2000工业环氧填缝剂，不会出现明显的风化问题。

LATICRETE Australia Pty Ltd

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¹ United States Patent No.: 6,881,768 (and other Patents).