

Redispersible Powders Product Guide

再分散性乳膠粉產品目錄



大連化學工業股份有限公司
DAIREN CHEMICAL CORPORATION



Table of Contents

產品目錄



- 4 Redispersible Powders Product Guide
再分散性乳膠粉產品介紹
- 6 Product Characteristics / Advantages
產品特性 / 優勢
- 8 Redispersible Powder Grade Overview
再分散乳膠粉產品總覽
- 10 Tile Adhesive and Tile Grout
磁磚接著與填縫劑
- 14 Skim Coat & Rendering
膩子與粉飾砂漿
- 16 Self Leveling Compounds
自流平砂漿
- 18 Exterior Insulation Finishing System
外牆外保溫系統
- 22 Repair Mortar
修補砂漿
- 24 Gypsum Based Compounds
石膏接著
- 25 Product Handling & Storage
產品操作安全與儲存
- 26 Storage
產品儲存注意事項
- 27 Regional Distribution of DCC
大連化學工業股份有限公司區域分佈

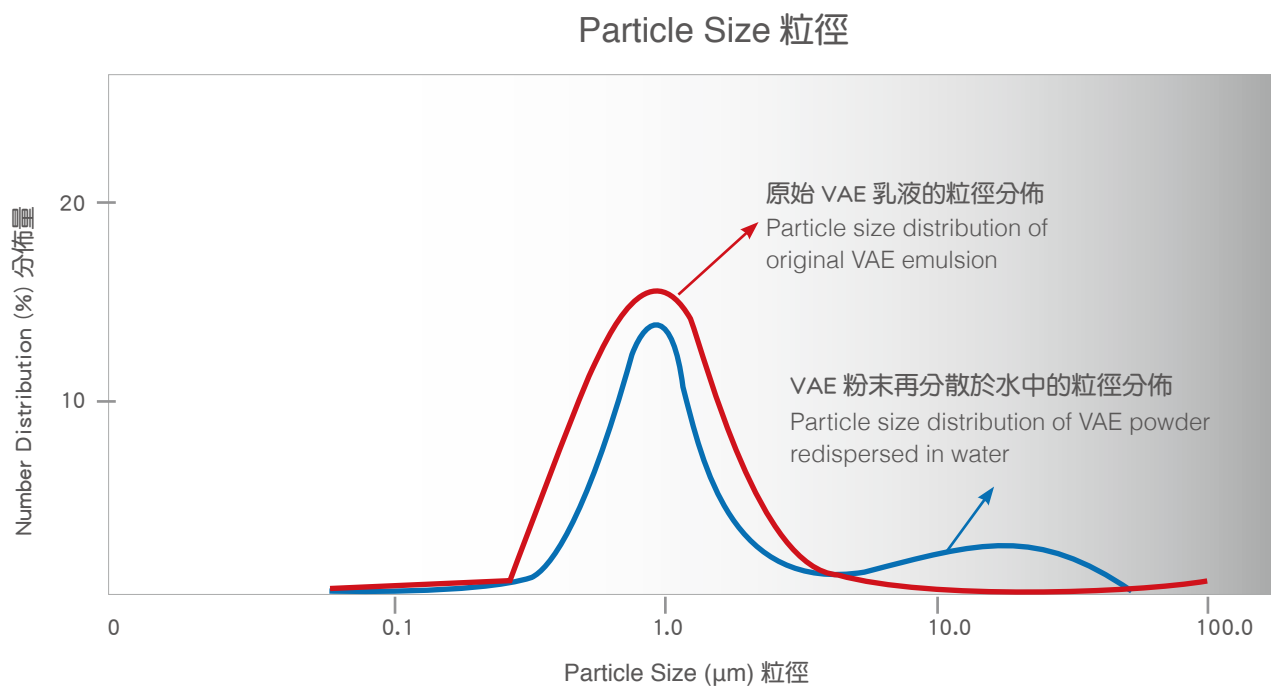
Production of redispersible powder

In spray drying process, the emulsion is first sprayed into tiny droplet. When the liquid droplet is in contact with hot air, it will be converted into ball-shaped powder due to the evaporation of water. The powder consists of polymer particle that is embedded in the protective colloid.

The protective colloid keeps the polymer particle apart, thus preventing the particle from irreversibly fusing together during the spray drying process. The powder is then mixed with anti-caking agent to prevent caking during the storage of powder.

Good redispersibility

When we add redispersible powder into water, it can be reconstituted into the emulsion easily. Below is the comparison on the particle size distribution between original VAE emulsion and reconstituted emulsion.



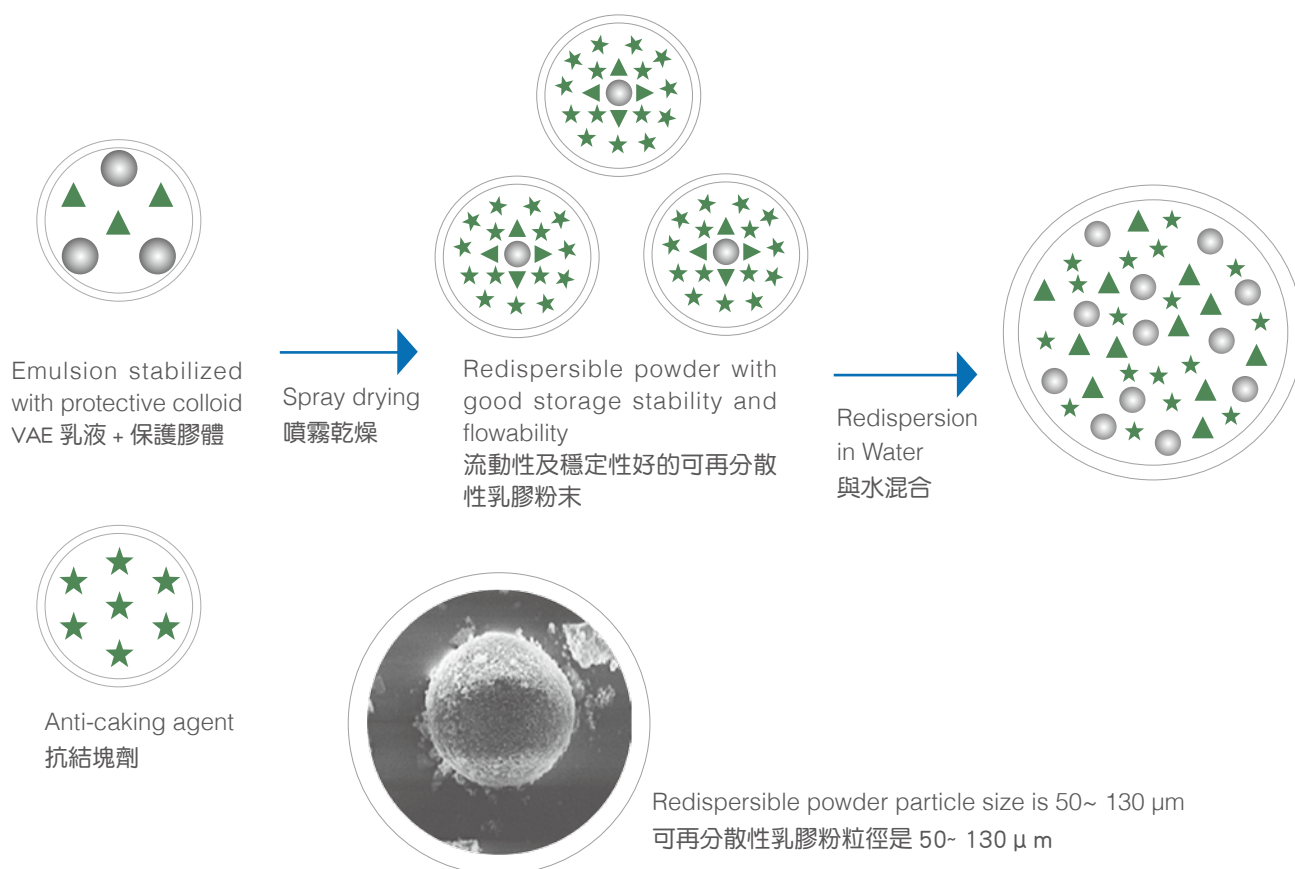
再分散性乳膠粉噴製過程

噴霧乾燥是將水性乳液霧化為微細小的液滴，當液滴與熱空氣接觸，水份被蒸發後變為類似球狀的乳膠粉末。乳膠粉末是由保護膠體附著於聚合物顆粒上。

保護膠體的功能是防止微細聚合物顆粒在噴霧乾燥程序中相互黏著在一起。抗結塊劑的功能是防止再分散乳膠粉成品存放時產生結塊。噴霧乾燥所製得的粗產品粉末須與抗結塊劑混合後可得產品。

優良的再分散能力

當可再分散性乳膠粉末加入水中，它將會再分散如原始乳液的分散狀況。在下表您可以看到可再分散性乳液與原始乳液的粒徑分佈比較。



Typical applications of the redispersible powders

- Tile Adhesive
- Grout Application
- Skim Coat
- Rendering
- Self Leveling Compounds
- Exterior Insulation & Finishing System
- Repair Mortar
- Gypsum Based Compounds

可再分散性乳膠粉的典型應用

- 磁磚接著
- 水泥基填縫砂漿
- 膩子
- 飾面砂漿
- 自流平砂漿
- 外牆外保溫系統
- 修補砂漿
- 石膏和含石膏的砂漿

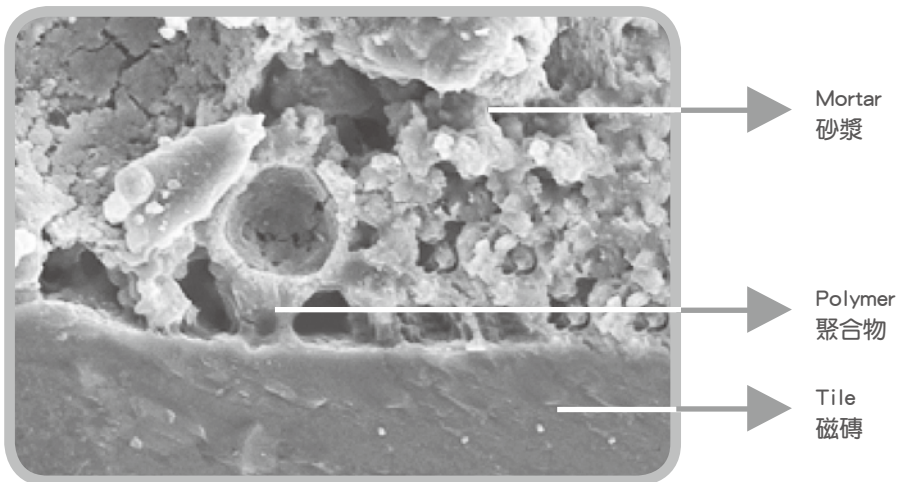


Advantages of adding redispersible powder in dry mix products

- Improve trowel ability and open time
- Enhance adhesive strength
- Increase anti-sagging performance
- Hydrophobic performance
- Increase impact resistance
- Increase abrasion resistance
- Increase flexibility

乾粉砂漿添加可再分散性乳膠粉末優勢

- 改善塗抹性和工作時間
- 提升接著強度
- 改善抗垂流性能
- 疏水特性
- 提升抗衝擊性
- 增加表面耐磨性
- 增加柔韌性



SEM of Polymer modified mortar: Enhance adhesive strength
聚合物改性水泥砂漿的 SEM - 提高接著強度

Redispersible Powder Grade Overview

可再分散乳膠粉產品總覽

Specification Table
產品規格資料表

Grade 規格	Polymer 聚合物種類	Tg 玻璃 轉化溫度 °C onset	Ash 灰份 wt%	MFFT 最低 成膜溫度 °C	Hydrophobic 疏水性	Flexibility 柔韌性	Rheology 流變性
DA-1100	VAc/E	15	10	3		★	Neutral 中性
DA-1120	VAc/E	15	10	3		★	Neutral 中性
DA-1122	VAc/E	15	10	3		★	Neutral 中性
DA-1123	VAc/E	15	10	3		★★★★	Thixotropic: Anti-Sag ★ 觸變性：抗垂性★
DA-1126	VAc/E	15	10	3		★★	Thixotropic: Anti-Sag ★★ 觸變性：抗垂性★★
DA-1130	VAc/E	15	10	3		★★	Thixotropic: Anti-Sag ★★★★★ 觸變性：抗垂性★★★★
DA-1133	VAc/E	15	10	3		★★	Thixotropic: Anti-Sag ★ 觸變性：抗垂性★
DA-1141	VAc/E	15	10	3		★	Enhance Flow ★ 促流性★
DA-1300	VAc/E	15	11	3		★	Enhance Flow ★★★★★ 促流性★★★★
DA-1200	VAc/E	0	10	0		★★	Neutral 中性

VAc: Vinyl Acetate 醋酸乙酯, E: Ethylene 乙烯, ★ Fair 一般, ★★ Good 優良, ★★★★★ Excellent 特優

Specification Table
產品規格資料表

Grade 規格	Polymer 聚合物種類	Tg 玻璃 轉化溫度 °C onset	Ash 灰份 wt%	MFFT 最低 成膜溫度 °C	Hydrophobic 疏水性	Flexibility 柔韌性	Rheology 流變性
DA-1210	VAc/E	0	10	0		★★	Neutral 中性
DA-1220	VAc/E	0	10	0		★★	Neutral 中性
DA-1400	VAc/E	-15	10	0		★★★★	Neutral 中性
DA-1410	VAc/E	-15	10	0		★★★★	Neutral 中性
DA-1420	VAc/E	-15	10	0		★★★★	Neutral 中性
DA-1450	VAc/E	-15	10	0		★★★★	Neutral 中性
DA-3510	VAc/E	-15	10	0	★★★★	★★★★	Neutral 中性
DA-3531	VAc/E	-15	10	0	★★★★	★★★★	Neutral 中性
DA-6100	VAc/E	15	31	3		★	Neutral 中性

VAc: Vinyl Acetate 醋酸乙酯, E: Ethylene 乙烯, ★ Fair 一般, ★★ Good 優良, ★★★★ Excellent 特優

Tile Adhesive and Tile Grout

磁磚接著與填縫劑

Specification Table
產品規格資料表

Grade 規格	Polymer 聚合物種類	Tg 玻璃 轉化溫度 °C onset	Ash 灰份 wt%	MFFT 最低 成膜溫度 °C	Flexibility 柔韌性	Rheology 流變性	Thin-bed cementitious tile adhesive 薄層接著砂漿 ISO13007, EN12004, C1
DA-1100	VAc/E	15	10	3	★	Neutral 中性	○
DA-1122	VAc/E	15	10	3	★	Neutral 中性	◎
DA-1123	VAc/E	15	10	3	★★★★	Thixotropic: Anti-Sag ★ 觸變性: 抗垂性★	◎
DA-1126	VAc/E	15	10	3	★★	Thixotropic: Anti-Sag ★★ 觸變性: 抗垂性★★	○
DA-1130	VAc/E	15	10	3	★★	Thixotropic: Anti-Sag ★★★★★ 觸變性: 抗垂性★★★★	○
DA-1133	VAc/E	15	10	3	★★	Thixotropic: Anti-Sag ★ 觸變性: 抗垂性★	○
DA-1200	VAc/E	0	10	0	★★	Neutral 中性	◎
DA-1210	VAc/E	0	10	0	★★	Neutral 中性	○
DA-1400	VAc/E	-15	10	0	★★★★	Neutral 中性	○
DA-1410	VAc/E	-15	10	0	★★★★	Neutral 中性	○
DA-1450	VAc/E	-15	10	0	★★★★	Neutral 中性	○
DA-3510	VAc/E	-15	10	0	★★★★	Neutral / Hydrophobic 中性 / 疏水性	○
DA-6100	VAc/E	15	31	3	★	Neutral 中性	○

VAc: Vinyl Acetate 醋酸乙酯, E: Ethylene 乙烯, ★ Fair 一般, ★★ Good 優良, ★★★ Excellent 特優



Highly flexible thin-bed cementitious tile adhesive 高柔軟薄層接著砂漿 ISO 13007, EN 12004, C2S2	Thin-bed adhesive mortars for adhesion to wood 薄層接著砂漿對木材	Joint filler and tile grouts 磁磚填縫劑	Long open time 長工作時間
○	○		◎
○	◎		
◎	◎		
○	○		
○	○		
○	○		
○		○	○
		◎	◎
○		○	○
		◎	◎
		○	◎
		◎	
○			

○ Useful 可使用， ◎ Recommended 建議使用

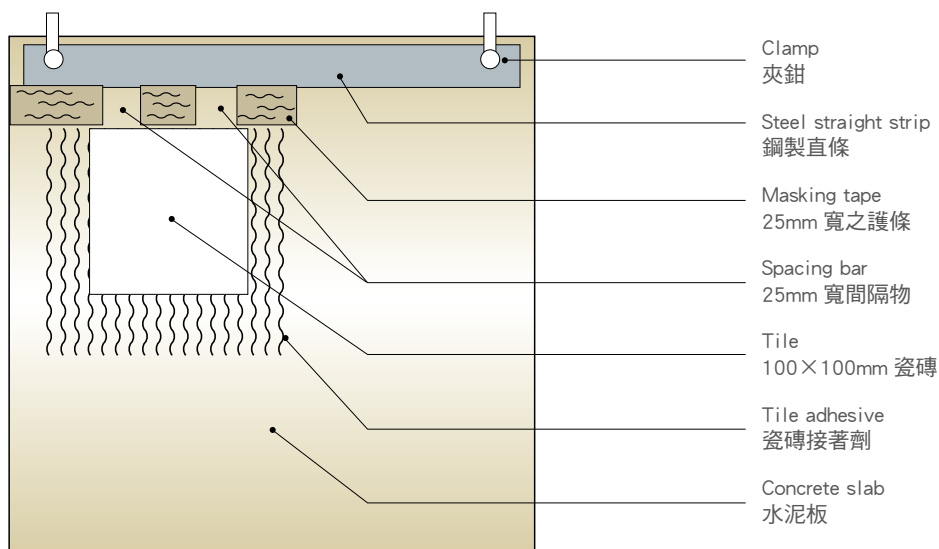
Tile Adhesive and Tile Grout 磁磚接著與填縫劑

DCC Redispersible Product Performance

DCC 可再分散性乳膠粉績效

DCC RDP consists of vinyl acetate/ethylene copolymer and it can be dispersed in water easily to form stable emulsion. RDP improves adhesion strength, flexural strength, open time, anti-sagging and workability.

DCC 可再分散性乳膠粉是由 VAE 乳液經噴霧乾燥後所形成之一種可自由流動之醋酸乙烯 - 乙烯共聚物白色粉末。可再分散性乳膠粉很容易再乳化分散於水中，形成安定的乳液。再分散膠粉可改善接著強度、抗折強度、工作時間、抗垂流和工作性。

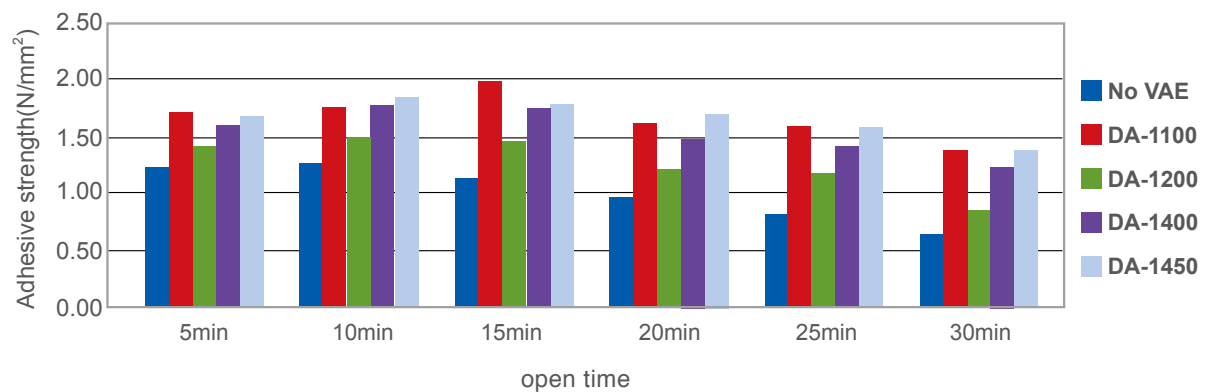


Dosage of DCC VAEP DCC VAEP 添加量	Requirement of EN12004 標準需求	Slip test 垂流測試
No RDP 無加膠粉	≤ 0.50 mm	3.30 mm
3% DA-1130		0.25 mm

DA-1130 improves the anti-slip performance of tile adhesive.
DA-1130 改善磁磚接著抗垂流特性。

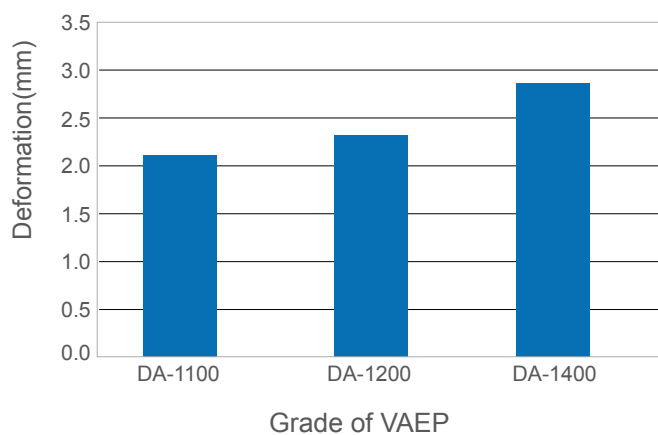


Tile adhesive open time 磁磚接著砂漿工作時間



VAEP DA-1450 enhances open time performance of tile adhesive.
VAEP DA-1450 對磁磚接著砂漿工作時間有最佳表現。

Deformation of tile adhesive 磁磚接著砂漿柔軟性



DA-1400 has better transverse deformation in tile adhesive application.

DA-1400 在磁磚接著砂漿表現有較佳柔軟性。



Tile adhesive transverse deformation test (EN-12002)
磁磚接著柔軟性測試 (EN-12002)

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Grade 規格	Polymer 聚合物種類	Tg 玻璃 轉化溫度 °C onset	Ash 灰份 wt%	MFFT 最低 成膜溫度 °C	Hydrophobic 疏水性	Flexibility 柔韌性
DA-1100	VAc/E	15	10	3		★
DA-1120	VAc/E	15	10	3		★
DA-1122	VAc/E	15	10	3		★
DA-1123	VAc/E	15	10	3		★★★★
DA-1126	VAc/E	15	10	3		★★
DA-1130	VAc/E	15	10	3		★★
DA-1200	VAc/E	0	10	0		★★
DA-1210	VAc/E	0	10	0		★★
DA-1400	VAc/E	-15	10	0		★★★★
DA-1410	VAc/E	-15	10	0		★★★★
DA-1420	VAc/E	-15	10	0		★★★★
DA-1450	VAc/E	-15	10	0		★★★★
DA-3510	VAc/E	-15	10	0	★★★★	★★★★
DA-3531	VAc/E	-15	10	0	★★★★	★★★★
DA-6100	VAc/E	15	31	3		★

VAc: Vinyl Acetate 醋酸乙烯酯, E: Ethylene 乙烯, ★ Fair 一般, ★★ Good 優良, ★★★★ Excellent 特優

RDP can be added into skim coat and render to improve the adhesion and flexural strength. We recommend a RDP dosage of 1% ~ 6% and it may be used together with cellulose ether at a dosage of 0.1% ~ 0.5%.



Rheology 流變性	Skim Coat 膩子	Rendering 粉飾砂漿
Neutral 中性	◎	○
Neutral 中性		○
Neutral 中性		○
Thixotropic: Anti-Sag ★ 觸變性：抗垂性★		○
Thixotropic: Anti-Sag ★★ 觸變性：抗垂性★★		○
Thixotropic: Anti-Sag ★★★ 觸變性：抗垂性★★★	◎	◎
Neutral 中性	○	○
Neutral 中性	○	○
Neutral 中性	○	○
Neutral 中性	○	○
Neutral 中性		○
Neutral 中性	○	○
Neutral 中性	○	◎
Neutral 中性	◎	○
Neutral 中性	○	○

○ Useful 可使用， ◎ Recommended 建議使用

RDP 適用於粉飾砂漿如水泥和膩子材料，而且可改善其接著強度、抗折強度。我們建議使用 1% ～ 6% 可再分散性乳膠粉，和 0.1% ～ 0.5% 的乙基纖維素或澱粉醚等搭配使用。

Self Leveling Compounds

自流平砂漿

Specification Table
產品規格資料表

Grade 規格	Polymer 聚合物種類	Tg 玻璃 轉化溫度 °C onset	Ash 灰份 wt%	MFFT 最低 成膜溫度 °C	Flexibility 柔韌性	Rheology 流變性	Cement based SLU 水泥基自平泥	Gypsum based SLU 石膏基自平泥
DA-1100	VAc/E	15	10	3	★	Neutral 中性	○	○
DA-1141	VAc/E	15	10	3	★	Enhance Flow ★ 流平性★	◎	◎
DA-1300	VAc/E	15	11	3	★	Enhance Flow ★★ 流平性★★	◎	◎
DA-1200	VAc/E	0	10	0	★★	Neutral 中性	○	

VAc: Vinyl Acetate 醋酸乙烯酯, E: Ethylene 乙烯, ★ Fair 一般, ★★ Good 優良, ★★★ Excellent 特優
○ Useful 可使用, ◎ Recommended 建議使用

Product Function 產品功能

DA-1141 is highly suitable for modifying self-leveling flooring compounds. It is thoroughly compatible with all commonly-used superplasticizers, such as casein, condensation products of melamine sulphonic acid and naphthalene sulphonic acid. Addition of this redispersible powder improves adhesion, abrasion resistance, flexural strength, water retention, workability and the flow properties of the compounds.

DA-1300 can improve the workability of self-leveling flooring compounds significantly, leading to excellent leveling effect. It is possible to use DA-1300 without additional superplasticizer.

DA-1300 can enhance the adhesion strength, flexural strength, abrasion resistance, shrinkage reduction and cracking prevention of self-leveling flooring compound. Recommended dosage of DA-1300 is 2-5%.

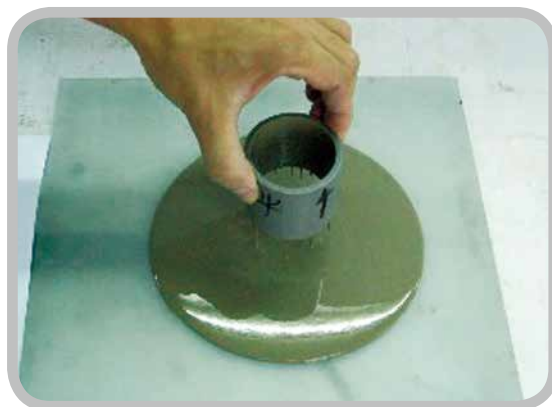
DA-1141 適合自流平砂漿應用，DA-1141 和減水劑（例如：干酪素、萘系磺酸鹽、蜜胺系磺酸鹽）有很好的相溶性。聚合物膠粉能改善接著強度、耐磨性、抗折強度、溼潤工作性、流平性。

DA-1300 改善自平泥工作性，具有超優異流平性能和穩定性，使用 DA-1300 可不必添加減水劑。

DA-1300 能夠改善自流平砂漿接著強度、抗折強度、耐磨性、抗收縮與避免龜裂。建議添加量是 2-5%。

DA-1141 provides
good self leveling performance.

DA-1141 有優異自流平特性



Exterior Insulation Finishing System

外牆外保溫系統

Specification Table
產品規格資料表

Grade 規格	Polymer 聚合物 種類	Tg 玻璃 轉化溫度 °C onset	Ash 灰份 wt%	MFFT 最低 成膜溫度 °C	Hydrophobic 疏水性	Flexibility 柔韌性	Rheology 流變性	Insulation to substrate adhesion 保溫材對基 板接著	Insulation decorative layer 保溫材 飾面層
DA-1220	VAc/E	0	10	0		★★	Neutral 中性	○	
DA-1400	VAc/E	-15	10	0		★★★★	Neutral 中性	◎	◎
DA-1410	VAc/E	-15	11	0		★★★★	Neutral 中性	◎	◎
DA-1420	VAc/E	-15	10	0		★★★★	Neutral 中性	◎	○
DA-1450	VAc/E	-15	10	0		★★★★	Neutral 中性	○	○
DA-3510	VAc/E	-15	10	0	★★★★	★★★★	Neutral 中性	○	◎

VAc: Vinyl Acetate 醋酸乙烯酯, E: Ethylene 乙烯, ★ Fair 一般, ★★ Good 優良, ★★★★ Excellent 特優
○ Useful 可使用, ◎ Recommended 建議使用



Product Function 產品功能

Exterior insulation and finishing system (EIFS) prevents the loss of the energy from the interior of a building to its exterior, thus achieving energy-saving effect. The redispersible powder can be added in the adhesive layer, base coat & key coat layer, finishing coat:

- Adhesive – Use for bonding the insulation material to wall.
- Base coat & key coat – Apply onto the insulation product with reinforcement (e.g. fiber web) being embedded within it to improve the overall structural impact resistance.
- Finishing coat – Top coat to protect the system against weathering.

By using DCC VAE powder in EIFS, one can improve the adhesion strength of mortar that is applied between the wall and the insulation material. Besides, it improves the impact resistance, weathering resistance and cracking resistance of the EIFS.

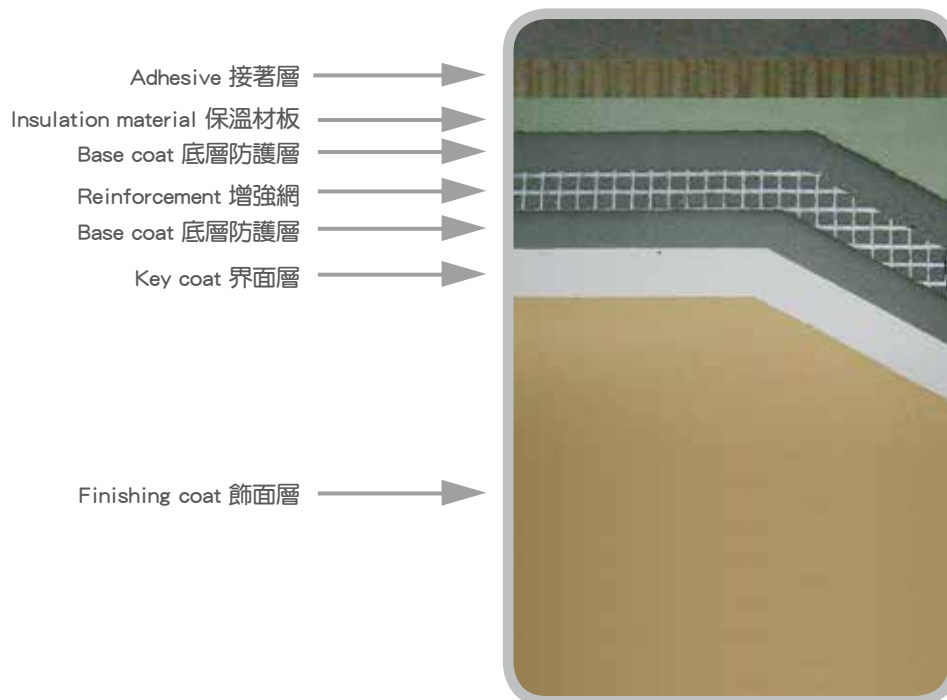
外牆保溫系統能避免牆體內部能量經牆穿透而逸散，達到節省能源功效。再分散膠粉可用在接著層 (adhesive layer)、底層防護層和界面層 (base coat & key coat layer)、飾面層 (finishing coat):

- 接著層 (adhesive layer) – 保溫材和牆體接著。
- 底層防護層和界面層 (base coat & key coat layer) – 用於保溫材外層，增強網相嵌其中，增加抗衝擊性。
- 飾面層 (finishing coat) – 用於最外層，有優異耐候性。

再分散膠粉修飾砂漿可增加牆面對保溫材接著強度，耐衝擊，良好耐候性並避免牆面裂痕產生。

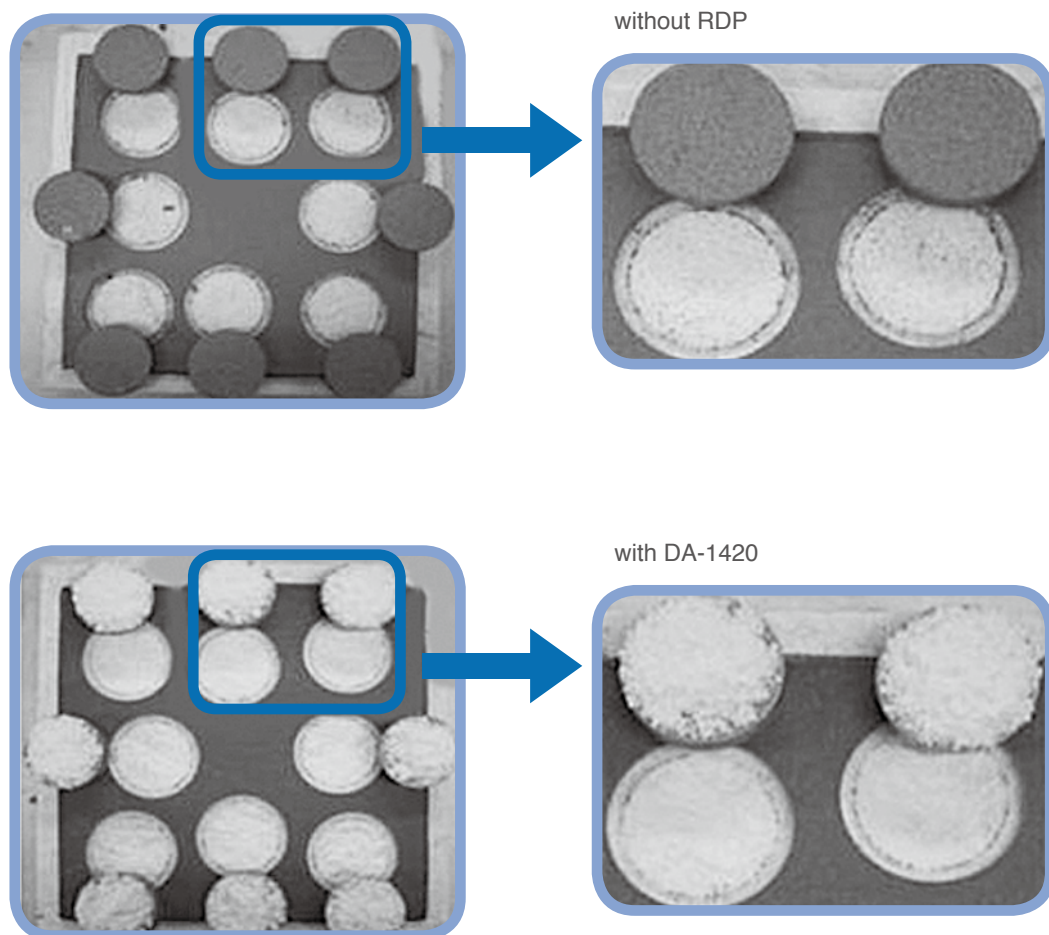
Exterior Insulation Finishing System 外牆外保溫系統

Illustration of Exterior Insulation Finishing System 外牆保溫系統圖





RDP-modified mortar has superior adhesive strength
再分散膠粉修飾砂漿有優異接著強度



RDP-modified mortar shows superior adhesion to insulation material. During the pull-off test, DA-1420-based mortar leads to cohesive failure within EPS board.
再分散膠粉修飾砂漿對保溫材板有優異接著強度，DA-1420 修飾砂漿可拉破聚苯乙烯保溫材板。

Repair Mortar

修補砂漿

Specification Table
產品規格資料表

Grade 規格	Polymer 聚合物種類	Tg 玻璃 轉化溫度 °C onset	Ash 灰份 wt%	MFFT 最低 成膜溫度 °C	Flexibility 柔韌性	Rheology 流變性	Repair Mortar 修補砂漿
DA-1100	VAc/E	15	10	3	★	Neutral 中性	○
DA-1120	VAc/E	15	10	3	★	Neutral / High strength 中性 / 高接著強度	◎
DA-1122	VAc/E	15	10	3	★	Neutral 中性	◎
DA-1123	VAc/E	15	10	3	★★★★	Thixotropic: Anti-Sag ★ 觸變性：抗垂性★	○
DA-1126	VAc/E	15	10	3	★★	Thixotropic: Anti-Sag ★★ 觸變性：抗垂性★★	○
DA-1130	VAc/E	15	10	3	★★	Thixotropic: Anti-Sag ★★★★★ 觸變性：抗垂性★★★★	◎
DA-1141	VAc/E	15	10	3	★	Enhance Flow ★ 流平性★	○
DA-1200	VAc/E	0	10	0	★★	Neutral 中性	○

VAc: Vinyl Acetate 醋酸乙烯酯, E: Ethylene 乙烯, ★ Fair 一般, ★★ Good 優良, ★★★★★ Excellent 特優

○ Useful 可使用, ◎ Recommended 建議使用



Specification Table
產品規格資料表

Grade 規格	Polymer 聚合物種類	Tg 玻璃 轉化溫度 °C onset	Ash 灰份 wt%	MFFT 最低 成膜溫度 °C	Flexibility 柔韌性	Rheology 流變性	Repair Mortar 修補砂漿
DA-1210	VAc/E	0	10	0	★★	Neutral / Smooth trowel 中性 / 好塗抹	○
DA-1220	VAc/E	0	10	0	★★	Neutral / High strength 中性 / 高接著強度	◎
DA-1400	VAc/E	-15	10	0	★★★★	Neutral 中性	○
DA-1410	VAc/E	-15	10	0	★★★★	Neutral / Smooth trowel 中性 / 好塗抹	○
DA-1420	VAc/E	-15	10	0	★★★★	Neutral / High strength 中性 / 高接著強度	◎
DA-1450	VAc/E	-15	10	0	★★★★	Neutral / High strength & smooth trowel 中性 / 高接著強度 & 好塗抹	○
DA-3510	VAc/E	-15	10	0	★★★★	Neutral / Hydrophobic 中性 / 疏水性	◎
DA-6100	VAc/E	15	31	3	★	Neutral 中性	○

VAc: Vinyl Acetate 醋酸乙烯酯, E: Ethylene 乙烯, ★ Fair 一般, ★★ Good 優良, ★★★★ Excellent 特優
○ Useful 可使用, ◎ Recommended 建議使用

Gypsum Based Compounds

石膏接著

Specification Table
產品規格資料表

Grade 規格	Polymer 聚合物種類	Tg 玻璃 轉化溫度 °C onset	Ash 灰份 wt%	MFFT 最低 成膜溫度 °C	Flexibility 柔韌性	Rheology 流變性	Gypsum base compounds 石膏接著
DA-1100	VAc/E	15	10	3	★	Neutral 中性	○
DA-1120	VAc/E	15	10	3	★	Neutral 中性	○
DA-1122	VAc/E	15	10	3	★	Neutral 中性	○
DA-1130	VAc/E	15	10	3	★★	Thixotropic: Anti-Sag ★★★ 觸變性: 抗垂性★★★	◎
DA-6100	VAc/E	15	31	3	★	Neutral 中性	○
DA-1200	VAc/E	0	10	0	★★	Neutral 中性	○

VAc: Vinyl Acetate 醋酸乙酯, E: Ethylene 乙烯, ★ Fair 一般, ★★ Good 優良, ★★★ Excellent 特優
○ Useful 可使用, ◎ Recommended 建議使用

Product Handling 產品操作安全資料

Redispersible VAE powder is non-toxic under normal condition of use. However, like all fine particles, it calls for certain basic safe guards during handling, such as wearing safety goggles and protective gloves. It is recommended to maintain good air ventilation in the workplace to keep the dust concentration lower than 10 g/m³ or as per the specifications of local regulations. If the dust concentration exceeds the specification, a general purpose disposable dust mask or respirator should be used. Please refer to our website for more details:

<http://www.dcc.com.tw> or email to service@dcc.com.tw

再分散性乳膠粉在正常情況使用是無毒性。無論如何，像大部份的細小粉末，一般操作時需要基本保護用具如安全眼鏡，防護手套及建議在工作場所維持良好的空氣流通，使粉塵濃度低於 10 g/m³ 或合乎當地的政府規定。如果超過規定濃度，請使用一般可處理的防塵面具等保護器具。關於更詳細的資料，請參考我們的網站：<http://www.dcc.com.tw> 或 E-mail 到 service@dcc.com.tw。

Redispersible VAE powder should be stored in cool and dry environment. It is recommended to use the product within 6 months. Use the powder as soon as possible in summer. Storing the powder at high temperature and under humid condition will increase the risk of caking. Once open the packaging bag, please use up the powder possible at once, if not, one shall seal the packaging bag properly to prevent the powder from absorbing the moisture in the air.

For redispersible VAE powder that is packed in paper bag, do not stack them or subject them to compression (in long run) to prevent caking.

DA 系列再分散性乳膠粉，需儲存於陰涼乾燥場所。建議之使用期限為六個月內，在夏天使用時請儘早使用。若保存在高溫潮濕之條件則會增加結塊之機率。開袋後請儘可能一次使用完畢，否則需將袋口封好以避免從空氣中吸收水份。

DA 系列可再分散性乳膠粉是以紙袋型式包裝，請勿以棧板堆疊或使紙袋長期間承受過高之壓力，避免結塊。



Regional Distribution of DCC

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