



# CONTOPP®

FIBERCOMPOUND DUREMIT hydro

全功能型 水泥砂漿

## 新品訊息



## 纖維補強合成樹脂添加劑 DMH

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德國原裝進口



### Function

- Increase in strength through synthetic hardening
- Rehydration protection
- Minimization of cracking through filament reinforcement
- Improvement of the processibility through plastification
- Reduced shrinkage
- Contains tracer for a subsequent half-quantitative analysis in sand/cement screeds

### 功能

- 藉由特殊樹脂合成固化反應增加常規砂漿強度，可降低所需砂漿厚度
- 避免二次水化
- 纖維增強，降低砂漿開裂可能性
- 增加常規砂漿的可塑性，施工更容易
- 降低砂漿收縮比
- 本品含螢光可追溯物質，可檢查實際添量

### Application area

- For producing highly stressed, sand/cement wearing screeds in accordance with BS 8204.
- For producing wearing screeds with hard granular surfacing.
- For producing screeds on underfloor heating.
- Replacement of steel reinforcement in screed
- Particularly suitable for damp locations and outside areas



### 應用範圍

- 可符合BS 8240規範 高抗壓、耐磨耗 水泥砂漿墊層標準
- 添加耐磨骨料可作為耐磨耗表面層使用
- 可作為地暖墊層砂漿使用
- 可替代砂漿墊層中的點焊鋼絲網補強
- 特別適合用於濕區及室外

### Data

|                         |  |
|-------------------------|--|
| Colour:                 | between white and beige  |
| Colour proof-pigment:   | yellow fluorescing   |
| Form:                   | pasty  |
| Processing temperature: | over + 5 °C  |
| Shelf life              | approx. 9 months - do not expose to sunlight or frost during storage |
| Supply form:            | Tension ring hobcock: 30 kg net                                      |

### 資料

|      |                |
|------|----------------|
| 顏色   | 乳白,含黃色螢光劑      |
| 外觀   | 濃稠漿狀           |
| 施工溫度 | +5°C以上         |
| 儲存期  | 室內陰乾、需防凍 約 9個月 |
| 包裝   | 30kg 桶裝        |

### Mix

| 1 : 5 mix by weight      | Standard    | CONTOPP®          | Unit |
|--------------------------|-------------|-------------------|------|
| Cement                   | 63          | 63                | kg   |
| Sand 0/4 <sup>1)</sup>   | 310         | 310               | kg   |
| Fibercomp. Duremit hydro | -           | 0.6 <sup>2)</sup> | ltr. |
| w/c-ratio                | 0.70 – 0.80 | 0.40 – 0.50       |      |

### 拌合

| 1:5 重量比               | 標準        | 添加 CONTOPP® | 單位      |
|-----------------------|-----------|-------------|---------|
| 水泥                    | 63        | 63          | kg 公斤   |
| 砂 0/4 (骨料)*           | 310       | 310         | kg 公斤   |
| CONTOPP DUREMIT hydro | -         | 0.6**       | ltr. 公升 |
| 水灰比                   | 0.70-0.80 | 0.40-0.50   |         |

### Strength

| Criteria                     | Standard   | CONTOPP®   | Unit              |
|------------------------------|------------|------------|-------------------|
| Flexural strength (28 days)  | F5         | F7         | N/mm <sup>2</sup> |
| Comp. strength (28 days)     | C25        | C40        | N/mm <sup>2</sup> |
| BRE test (impact resistance) | Category B | Category A |                   |

### 強度

| 檢測           | 標準  | 添加 CONTOPP® | 單位                       |
|--------------|-----|-------------|--------------------------|
| 28 天 抗彎曲強度   | F5  | F7          | Mpa (N/mm <sup>2</sup> ) |
| 28 天 抗壓強度    | C25 | C40         | Mpa (N/mm <sup>2</sup> ) |
| BRE 試驗 (耐衝擊) | B 級 | A 級         |                          |
| 開放步行         | 72  | 24          | 小時                       |

F7 代表抗彎曲強度為 7Mpa(71.4kg/cm<sup>2</sup>); C40 代表抗壓強度可達 40Mpa(408kg/cm<sup>2</sup>)



## Floor Finish

<sup>1)</sup> according to BS EN 13139

<sup>2)</sup> corresponds to 1.0 V-% of the cement weight

This ideal screed mortar can only be manufactured whilst adhering to the processing information listed below. The details refer to 50 mm screed thickness, normal climatic conditions at + 20 °C and a relative humidity of 65 %.

| Criteria     | Standard | CONTOPP® | Unit  |
|--------------|----------|----------|-------|
| Foot traffic | 72       | 24       | hours |

\* 骨料按 BS EN13139 標準 水泥按 BS EN197 標準 \*\* 約為水泥重量 1% 的體積  
以上資料以 50mm 厚度水泥砂漿墊層 在 65%相對溼度 +20°C養護條件

### Recipe

- Stick to the dosage (1.0 V-% of cement weight); ingredients should be added to the moistened mix. W/c-ratio < 0.50
- Mix for at least 2 minutes after adding all the components

### 添加配比

CONTOPP® DUREMIT hydro 添加量以水泥重量的 1%- 相對體積為準; 拌合混入水灰比<0.5 的水泥砂漿中, 添加入砂漿中後至少攪拌 2 分鐘以上

### Construction site conditions

- Protect from draughts and direct sunlight during setting.
- Remove surplus moisture by means of draught-free ventilation (natural ventilation).
- Nature of construction and construction site preparation following BS 8204-1 and 8000.

### 現場施工

- 初期凝固階段應避免陽光直射或過快風乾
- 殘存濕氣以增加通風, 自然風乾為佳
- 施工規範請參照 BS 8204-1 & BS 8000

### Minimum screed thickness <sup>1)</sup>

| Flexural strength   | Bonded                               | Unbonded                             | Floating                             | On underfloor heating <sup>2)</sup>  |
|---------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| 7 N/mm <sup>2</sup> | Standard: 20 mm<br>Heavy duty: 20 mm | Standard: 35 mm<br>Heavy duty: 35 mm | Standard: 35 mm<br>Heavy duty: 50 mm | Standard: 35 mm<br>Heavy duty: 50 mm |

<sup>1)</sup> Working load: Standard ≤ 2.0 kN/m<sup>2</sup>; Heavy duty: ≤ 3.5 kN/m<sup>2</sup>

<sup>2)</sup> In the case of screeds on underfloor heating thickness above the pipes

### 添加 DMH 後各式砂漿墊層可允許最小砂漿厚度 ①

| 抗彎曲強度               | 接著砂漿層               | 非接著砂漿層              | 浮動(式)砂漿層            | 地暖系統應用 ②            |
|---------------------|---------------------|---------------------|---------------------|---------------------|
| 7 N/mm <sup>2</sup> | 標準 20mm<br>高承載 20mm | 標準 35mm<br>高承載 35mm | 標準 35mm<br>高承載 50mm | 標準 35mm<br>高承載 50mm |

① 活動載重 標準為 ≤ 2.0kN/m<sup>2</sup> 高承載為 ≤ 3.5kN/m<sup>2</sup> ② 地暖系統應用指得是水暖管上方覆蓋厚度要求



## Screed on underfloor heating - start-up heating protocol <sup>1) 2)</sup>

|                              |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Heating process after laying | 19 <sup>th</sup> day | 20 <sup>th</sup> day | 21 <sup>th</sup> day | 22 <sup>th</sup> day | 23 <sup>th</sup> day | 24 <sup>th</sup> day | 25 <sup>th</sup> day | 26 <sup>th</sup> day | 27 <sup>th</sup> day | 28 <sup>th</sup> day |
| Temperature                  | 25°C                 | 35°C                 | 45°C                 | 55°C                 | 55°C                 | 55°C                 | 55°C                 | 45°C                 | 35°C                 | 25°C                 |

<sup>1)</sup> It can be useful to lengthen the heating procedure for screed thicknesses of > 50 mm above the pipes to achieve sufficient drying.

<sup>2)</sup> During the heating phase do not carry out any finishing work and do not cover or block the screed surface.

### 地暖砂漿開啟程序①②

|         |      |      |      |      |      |      |      |      |      |      |
|---------|------|------|------|------|------|------|------|------|------|------|
| 砂漿墊層鋪設後 | 第 19 | 第 20 | 第 21 | 第 22 | 第 23 | 第 24 | 第 25 | 第 26 | 第 27 | 第 28 |
| 地暖加熱過程  | 天    | 天    | 天    | 天    | 天    | 天    | 天    | 天    | 天    | 天    |
| 溫度設定    | 25°C | 35°C | 45°C | 55°C | 55°C | 55°C | 55°C | 45°C | 35°C | 25°C |

① 當地暖上方砂漿覆蓋厚度愈大>50mm,應延後地暖啟動作業時間

② 地暖加熱過程中應避免覆蓋或裝修同步進行

### Measuring residual moisture content

- Prior to laying the top flooring, the residual moisture of the screed must be measured by the person laying the floor.
- Whilst adhering to all the manufacturer's details, BS 8203 recommends laying the screed under 75 % relative humidity.

### 殘存濕氣量測

- 各式地材覆蓋鋪設前應予以量測砂漿墊層殘存濕氣,並達到各廠家允許範圍內,方可施工
- 墊層砂漿施工前按 BS 8203 標準要求基層相對濕度應<75%

### Comments

The raw materials we process and the products we produce are subject to strict factory inspections. Do not use products from other manufacturers when using this product. It is stressed that our products and the procedure must be tested for suitability for the expected construction site conditions. The quality of screeds is essentially influenced by the quality of sand and cement, the mixing rates and the processing in accordance with approved screeding technology. Upon the publication all other previous copies shall become invalid.

### 備註

- 使用本品時不建議與其他添加劑混用
- 砂漿最終強度及品質皆受在地水泥及砂(骨料)品質好壞會有所差異,同時施工時的攪拌、水灰比控制及砂漿壓實密度等都對最終品質會有影響

