RESIN BONDED AGGREGATE SURFACING

PRODUCT SPECIFICATION

1. Surface Treatment

1.1 Decorative resin bonded surface treatments consist of a film of binder applied to a sound substrate and covered with an aggregate to provide a textured, durable matrix of medium skid resistance. This treatment is a tried and tested material with a documented design life of no less than 7 years in heavily trafficked areas.

2. Supplier Details

2.1 Materials for this surface treatment shall be supplied by:

OMNICRETE Pty Ltd,
Po Box 79, Eltham Victoria 3095
Ph:- 1300 851 523
Email:- info@omnicrete.com.au
Web:- www.omnicrete.com.au

3. Resin Binder

3.1 The applied resin binder shall be from the OMNIGRIP range and unless an alternative is recommended by the supplier for a specific site application, the resin binder shall be OMNIGRIP EP 176/175 being a thermosetting modified epoxy compound designed to hold aggregate permanently in position so that it doesn't become embedded or displaced under the heaviest of trafficking.

4. Aggregate Dressing

4.1 The applied resin surface shall be dressed and finished the following aggregate finish:
**Deco (specify color and aggregate type) aggregate.
**Synthite® (specify color and aggregate type) coloured aggregate.
(**Delete as required) **

4.2 To retain colour and/ or natural stone appearance no artificial pigments or coloured sealers shall be applied to the aggregate finish and under no circumstances shall the artificial colour coating of natural aggregates be considered.

4.3 The grading of the aggregate shall be nominally (specify sizing) and shall be clean and free from foreign matter.

*** Aggregate Sizing Notes*

Nominal 1 – 3 mm aggregates are recommended for heavy vehicle traffic areas and on average provide a nominal texture depth of 1 mm under vehicle traffic.

Nominal 1.0 – 1.5 mm aggregates are recommended for heavy commercial pedestrian or light domestic low speed vehicle traffic and on average provide a nominal texture depth of 0.5 mm under vehicle traffic.

Nominal 0.5 – 1.0 mm aggregates are recommended for domestic pedestrian only areas and provide a nominal texture depth of 0.3 mm under pedestrian traffic

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5. Surface Preparation

5.1 **CONCRETE**

5.1.1 New concrete should be water cured for at least 28 days, well compacted and finished, preferably by power floating or trowelling to give a dense smooth finish.

5.1.2 Old concrete must be structurally sound, all loose and deteriorated areas shall be replaced, spalled areas repaired and Any existing coatings must be removed.

5.1.3 The concrete substrate must have a moisture content no greater than 5% by volume and the surface must be clean, free from dust, oil, grease or other contaminants that may impair the adhesion of the OMNICRETE system.

5.1.4 All surface laitance must be removed by captive shot blasting, diamond grinding, hydro blasting or other approved methods.

5.1.5 Concrete surfaces shall be suitably primed in accordance with manufacturer's instructions

5.2 **ASPHALT**

5.2.1 Asphalt surfaces shall be vigorously treated to remove dust laitance and other loose material. The treatment shall consist of the application of Hot Compressed Air or dry surface abrasive blasting as determined by a site inspection

5.2.2 Unless otherwise directed by the engineer any newly laid asphalt surface shall be trafficked for a period of 6 weeks prior to surface binder application.

5.3 Any visible oil not removed during the process described in clause 4.1 / 4.2 shall be removed by washing & scrubbing the surface with a mild detergent solution and flushing with clean water. The surface shall then be allowed to dry prior to surface application of the binder.

5.4 Unless otherwise directed by the engineer all existing road markings, ironwork and studs shall be suitably masked.

6. Hand Applied Batch Mixing of Binder

6.1 Binder components shall be batched and mixed in accordance with the manufacturer's instructions. Components shall be accurately proportioned by weight or volume and thoroughly mixed using a mechanical mixer.

7. Application

7.1 The binder shall be applied by squeegee onto a dry surface at a rate, which will vary according to the surface texture and porosity. On a smooth closed textured surface the amount of binder shall not be less than the manufacturers requirements as required to hold the aggregate permanently in position.

7.2 The temperature of binder components heated to facilitate mixing or spray application shall be measured using a temperature gauge accurate to ± 2° and shall not exceed the maximum temperature recommended by the resin manufacturer. Heated binders shall be allowed to cool prior to the application of aggregate.

7.3 Following binder application, aggregate shall be broadcast to cover the binder uniformly and to excess, in accordance to the manufacturer's instructions. Rolling of aggregate shall not be permitted under any circumstances.

7.4 Immediately following application any masking material shall be removed together with any binder or aggregate adhering to same. During the cure period no disturbance or trafficking shall be permitted.

7.5 Upon initial curing all excess aggregate shall be removed by a vacuum sweeper or equivalent means.

7. Slip Testing Compliance

7.1 The manufacturer and / or supplier shall provide independent documented slip testing on the proposed surface treatment indicating compliance and classification of the surfacing as a Type V (Wet BPN >54) as tested and classified in accordance with AS/NZS 4586-2004 (Slip Resistance Classification of a new pedestrian surface materials)

8. Finished Surface Properties

8.1 Upon completion the applied surface shall be of a consistent and uniform finish with no loss of any surface area in excess of 3%

9. Defects Liability

9.1 The defects liability period for the applied surfacing shall be 24 months during which time the contractor shall be responsible for monitoring the site and undertaking any defects rectification.

10. Clear Sealing (Optional If Specified)

10.1 Upon the removal of excess aggregate the finished surface may be sealed a UV stable (non yellowing) clear high solids sealer. Application of such sealer provides a clear protective coat that minimises stain and dirt ingress into the finished stone aggregate surface. Any application of the sealant should be in accordance with Technical Data Sheet.

Notice

All information is based upon results gained from experience and is believed to be accurate but is given without acceptance of liability for loss or damage attributable to reliance thereon as conditions of use lie outside our control. Users should always carry out tests to establish the suitability of any products for their intended application. No statements shall be incorporated in any contract unless expressly agreed in writing nor construed as recommending the use of any product in conflict of any patent. All goods are supplied subject to OmniCrete Pty Ltd's General Conditions of Sale

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