Flowcrete Matrix

A high performance laminating epoxy designed for applications requiring high physical and mechanical performance.

**Tank Lining:**
Can be used as a coating for tanks.

**Yacht & Boat Building:**
Actively used in the construction or repair of yachts and boats.

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### Flowcrete Matrix Technical Profile

**NO. OF COMPONENTS**
- 2

**MIX RATIO**
- Weight - 114:33
- Volume - 3:1

**SG EPOXY**
- 1.14

**MIX VISCOITY**
- 600cps

**GEL TIME**
- 200g @ 25°C - 65min
- 1000g @ 25°C - 45min

**THIN FILM GEL TIME**
- 3 hours (1mm)

**CLEANER**
- Epoxy Thinners

### Properties Without Reinforcement

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile Strength</td>
<td>55mPa</td>
</tr>
<tr>
<td>Tensile Elongation</td>
<td>4%</td>
</tr>
<tr>
<td>Tensile Modulus</td>
<td>3.3Gpa</td>
</tr>
<tr>
<td>Flexural Strength</td>
<td>92mPa</td>
</tr>
<tr>
<td>Flexural Modulus</td>
<td>3.7Gpa</td>
</tr>
<tr>
<td>HDT Without Post Cure</td>
<td>55°C</td>
</tr>
<tr>
<td>HDT With 12 Hrs 50°C</td>
<td>80°C</td>
</tr>
</tbody>
</table>

### Properties With Postcure 12 Hrs @ 50°C

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile Strength</td>
<td>DIN53455  73mPa</td>
</tr>
<tr>
<td>Tensile Elongation</td>
<td>DIN53455  4%</td>
</tr>
<tr>
<td>Tensile Modulus</td>
<td>DIN53457  3.7Gpa</td>
</tr>
<tr>
<td>Flexural Strength</td>
<td>DIN53452</td>
</tr>
</tbody>
</table>

- Cure times at temperatures between 0-30°C can be achieved by altering the quantity of catalyst used.

For applications falling outside of this temperature range, please contact your local Flowcrete Technical Department.
Preparation
All surfaces to be clean and sound.

Application
1. Combine epoxy and activator in the correct ratios by weight or volume and mix thoroughly.
2. Transfer to a roller pan and apply directly into the glass fabric.
3. Avoid use below 8°C.
4. Optimum properties are obtained with post cure.

Substrate Requirements
Concrete or screed substrate should be a minimum of 25 N/mm², free from laitence, dust and other contamination. Substrate should be dry to 75% RH as per BS8204.

Installation Service
The installation should be carried out by an Approved Flowcrete Applicator. For details of our Approved Applicators, contact your regional Flowcrete office. Detailed application instructions are available upon request.

Aftercare, Cleaning & Maintenance
Clean regularly using a single or double headed rotary scrubber drier in conjunction with a mildly alkaline detergent.

Environmental Considerations
The finished system is assessed as non-hazardous to health and the environment. The long service life and seamless surface reduce the need for repairs and maintenance. Environmental and health considerations are controlled during manufacture and application of the products by Flowcrete staff and fully trained application teams.

Focus on the Floorzone
Flowcrete is a market leader in specialist industrial and commercial flooring. Systems available include: floor screeds, surface damp proof membranes, decorative flooring, seamless terrazzo, car park deck coatings, tank lining systems… to name just a few. Our objective is to satisfy your Floorzone needs.

Warranty
Flowcrete products are guaranteed against defective materials and manufacture and are sold subject to our standard ‘Warranty, Terms and Conditions of Sale’, copies of which can be obtained on request. Warranty does not cover suitability, fit for purpose or any consequential or related damages. Please review warranty in detail before installing the products.