



FREEFORMTM
ARCHITECTURAL DRY MORTARS



ARCHITECTURAL **DRY MORTARS**



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FREEFORM™

ARCHITECTURAL DRY MORTARS

Cement concrete is a fairly ubiquitous material, yet one with a most singular and natural feel. No surprise then, that for centuries it has been a material of choice for several leading designers for a variety of applications.

Building on the more than half a century of experience and expertise of VYARA, FreeForm offers a wide range of high quality products, in the form of ready to use, trouble-free premixes, for use in sharp and timeless surface finish applications.

FreeForm offers a truly eclectic range of bagged, dry mixed concrete mortars for seemingly endless surfaces with superior performance characteristics, which are normally not expected in concrete materials.



FreeForm makes the following promises



All products are specific to your requirements

All FreeForm mortars are offered site and requirement specific, and even uniquely customised where required.



Enhanced Performance

All FreeForm products are value enhanced, with characteristics far superior to conventional products.



Industrial Reliability

All FreeForm products are scrupulously tested in-house to impart a high level of reliability and repeatability at your site.



Ease of use

All FreeForm products will be easier to use and give better productivity than conventional materials.



Support

All FreeForm products come with an assurance of support in terms of guidance for usage. Where possible, applicator agencies are also provided or turnkey installations also undertaken.

Environmental Initiatives



FreeForm prides itself in being a conscientious organisation. Environment, ethics and quality are cornerstones of our efforts.

Our products will always attempt to be as environmentally friendly as possible. Some of the initiatives include:

- Use of solvent free, VOC free coatings
- Maximum use of locally sourced raw materials
- Use of ethically sourced raw materials
- Selection of chemicals and raw materials with minimal environmental impact
- Processes and quality measures to ensure minimum wastage

TERRAZZO

Polished Terrazzo Floor Material



Terrazzo is a cementitious decorative dry mix material for floors. The floors can be finished off in matt or high gloss finish in the grinding and polishing operation.

An ancient method of flooring, in situ floors are designed and constructed as unique floors. Even with their playful imperfections, laid-on-site cement terrazzo floors are an epitome of design and context in floorings.

Improved quality of supporting chemicals like admixtures, fibers and sealants, now make terrazzo floors more practical than ever before.

Available in bespoke base colours and numerous aggregate options, the FreeForm Terrazzo screed offers several technically enhanced properties over the conventional cementitious floors.

Key features include:



Slight Flexibility in Material
Less cracks | Large panel sizes



Lower Dimensional Shrinkage
Fewer cracks in concrete



Thin Layer Application
Environment friendly



High Adhesion to Substrate
Less peeling off | High bonding



Extensively Tested at Factory
Quality assurance for you



High Workability
Fast completion of project



Low Requirement of Curing
Less supervision required at site



Water Repellence
Moisture ingress & stain protection



High Consistency of Material
Peace of mind

As a result of these characteristics, one can expect high technical as well as visual characteristics, with less pinholes, great natural looks and long lifetime for the flooring.

Application

Residential floors, commercial and public spaces. If heavy wear is expected on the floor, the same must be specified during the selection process so that the ingredients can be suitably selected.

Specifications

Max. Aggregate Size	Compressive Strength
2-10 mm or as per request	>45 N/mm ²
Flexure Strength	Bulk Density
>6.5 N/mm ²	~1725 kg/m ³
Wet Density	Output/Coverage
~2200 kg/m ³	~2.2 kg /mm/m ²

Variants

The material is available in two variants:

NS (Normal Setting) / RS (Rapid Setting)

The NS variant imbibes all qualities one desires from the polished terrazzo floor.

- Shrinkage crack resistance
- Adhesion to substrate
- High strength
- Water repellence characteristics
- Possible to lay with minimum fuss and skill

The RS (Rapid Setting) variant has all of these and the additional benefit of being able to be put to use/polish next day as opposed to 3-5 days for the NS product.

Finishes

The Terrazzo surface can be finished with mirror polish or brushed (antique) finish and then sealed.





Complementary Products

The use of following other products by FreeForm are recommended for best results:

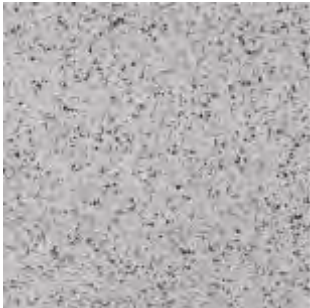
- **Base Materials:** FF Dry Screed | SLU—Self levelling underlayment | Suitable FreeForm Primer
- **Seal and Protect:** FF Terrazzo Grout | FF Densifier | ClearSeal

Terrazzo floors are now possible in large panels with sizes up to 3000 mm x 3000 mm.

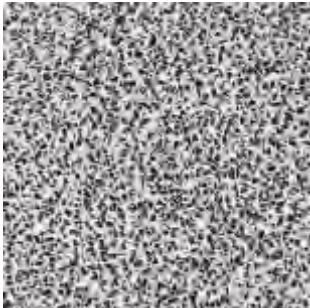
Each of the floors are unique and customised as per requirement. We are happy to offer materials, and in some cases agencies, for the construction and finishing of in-situ concrete floors.



Terrazzo Catalogue



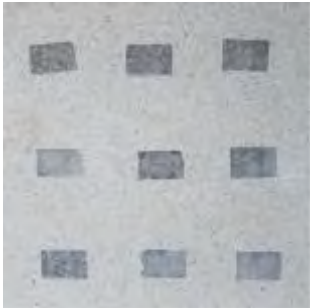
T01



T02



T03



T04



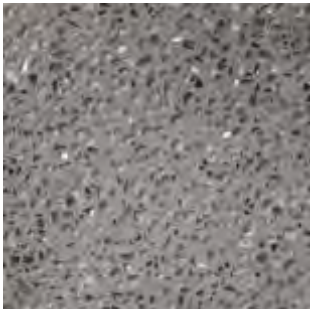
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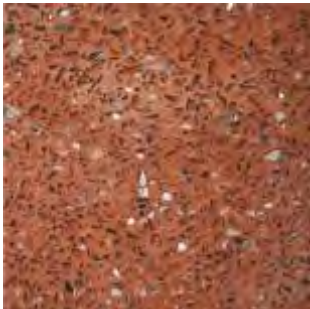
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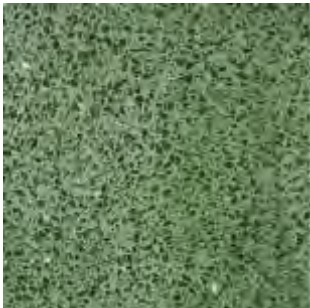
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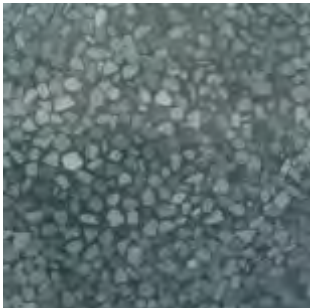
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T10



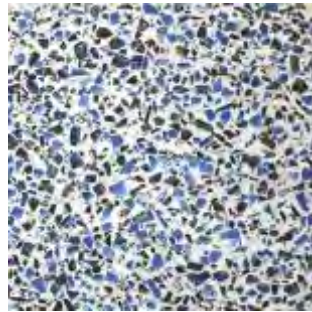
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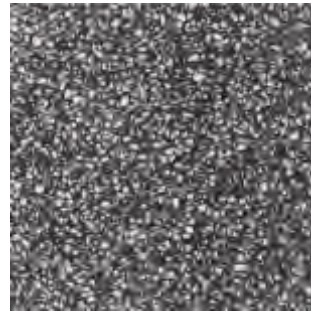
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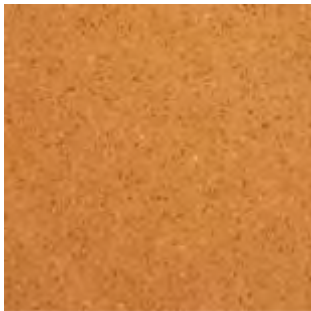
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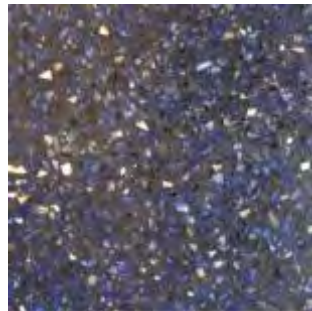
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T15



T16



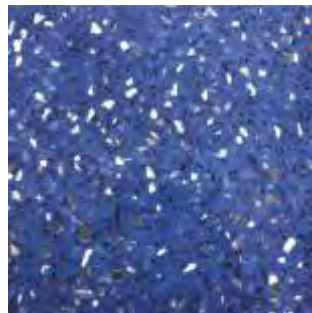
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T18



T19



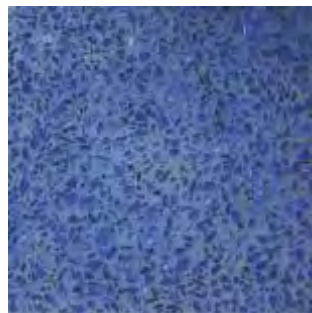
T20



T21



T22



T23



T24

FF MICROCEMENT

Micro Toppings for Complete Renovation of an Existing Surface



FF MicroCement is a cementitious decorative surface coating applied in 2-3 layers and with total thickness of the system not exceeding 2-3 mm. One of the most important design features is that it offers seamless application for the interior and exterior spaces. It is suitable for any surface, including for furnitures.

FF MicroCement offers variegation in texture and shades to interior and exterior walls, furniture and floors which ordinary paint cannot possibly match.

Available in numerous base colours options, the FreeForm MicroCement is also ideal for renovation applications where a quick turnaround time is required and in restoration projects where the use of heavy machinery is not feasible.

FF MicroCement helps to immensely reduce Carbon footprint and environmental impact, as little or no demolition is needed to use the material.

Key features include:



Thin Layer Application
Environment friendly



Seamless Application
No joints



Quick Application
Fast completion of project



Lower Dimensional Shrinkage
Fewer cracks in concrete



High Adhesion to Substrate
Less peeling off | High bonding



Extensively Tested
Quality assured



Low Requirement of Curing
Less supervision required at site



Water Repellence
Moisture ingress & stain protection



Peace of Mind
More value for money

Application

Suitable for residential, commercial, indoor & outdoors floors, walls, stairs, counter tops, furniture. Please specify and confirm application before ordering.

Specifications

Max. Aggregate Size	Output/Coverage
1 mm	~2.2 kg /mm/m ²



Variants

The FF MicroCement is available in the following variants

Standard Version—for walls and most furniture applications

Floor Version—for tougher demands of the floor applications with higher wear resistance

WP (Waterproof) Version—for water bodies like swimming pools, fountains, and others.

Finishes

The surface obtained is a concrete finish, which means that there will be variations from the applications and the variations are to be accepted, or even introduced. This makes FF MicroCement possible to apply with limited skills. It is always possible to repair a poorly done coat by applying an extra coat of about 0.5 mm on top of the previous coat. The MicroCement surface can be finished with a sandpapered or brushed finish and then sealed. The material can also be brushed and sponged in wet to create various effects. It is also possible to apply materials in different shades and colours, or create effects with the hand trowel.

Complementary Products

The use of following other products by FreeForm are recommended for best results:

- **Waterproofing:** FFARGF Net
- **Base Materials:** FF Dry Screed | SLU—Self levelling underlayment | Suitable FreeForm Primer
- **Seal and Protect:** AcrySeal or ClearSeal



HARDTOP

Wear Resistant Concrete Floor Topping

Interior, Exterior, Basement and Industrial Flooring



HardTop is a natural wear resistant aggregate based, ready-to-use dry shake hardener. It is a combination of factory premixed assorted hardening particles, additives, cement and colouring pigments.

The material is designed for increasing the abrasion resistance and imparting aesthetic characteristics to the freshly laid monolith concrete floors.

Key features include:



Wear Resistance
Durable floors



High Strength
High durability | Low maintenance cost



High Bonding
Better adhesion



Lower Dimensional Shrinkage
Fewer cracks in concrete



Water Repellence
Moisture ingress & stain protection



Extensively Tested
Quality assured



High Adhesion to Substrate
Less peeling off | High bonding



Low Requirement of Curing
Less supervision required at site



Easy to Clean
Better looking surfaces

The FreeForm HardTop material is available in customizable colour options. All materials are non-oxidizing. Other options with extreme wear resistance are also available.

Application

The HardTop material can be adapted for use in several different applications and for different final finishes. It is sprayed on wet and fresh concrete installations to give a value added finish. Applications include all interior high traffic floors, malls, multiplexes, light vehicular traffic area with high number of vehicles like car parks, basements, golf cart roads and factory shed topping.

Specifications

Max. Aggregate Size		Compressive Strength
4 mm		>40 N/mm ²
Flexure Strength	Bulk Density	Wet Density
>4 N/mm ²	~1520 kg/m ³	~2200 kg/m ³
Output/Coverage		
4 to 6 kg of material is normally used per sq. metre.		

Variants

HardTop is also available in **Heavy Duty (HD)** and **Extra Heavy Duty (EHD)** variants with special hard aggregates to cater to requirements of higher and extreme wear resistant.

Finishes

The HardTop surface can be realised in mirror polish, brushed finish or even with an acid finish.

Complementary Products

The use of following other products by FreeForm are recommended for best results:

- **Seal and Protect:** FF Densifier | AcrySeal or ClearSeal



Picture is for indication only. Courtesy of Architects Ms. Prabhakar B Bhagwat, Project 'The ARK', Vadodara. Flooring Contractor Ms. Creative Floors

PEBBLEWASH

Washed Concrete Floors with Exposed Aggregates



Pebblewash floors with large panel sizes are a designer's delight where a cast-on-site exterior flooring is required. It goes without saying that for floor applications, extremely high quality of the material and application quality as well as the construction of a perfect base are imperative.

Pebblewash floors can be finished off in varying degree of aggregate exposure depending on the size of the aggregates used.

Available in bespoke base colours and numerous aggregate options, the FreeForm Pebblewash offers several technically enhanced properties over the conventional cementitious floors.

Key features include:



High Adhesion to Substrate
Less peeling off | High bonding



High Workability
Fast completion of project



Thin Layer Application
Environment friendly



High Consistency of Material
Peace of mind



Lower Dimensional Shrinkage
Fewer cracks in concrete



No Contamination
Better performance



High Strength
High durability | Low maintenance cost



Slight Flexibility in Material
Less cracks | Large panel sizes



Easy to Clean
Better looking surfaces



Water Repellence
Moisture ingress & stain protection



Low Requirement of Curing
Less supervision required



Extensively Tested
Quality assured

Application

Generally used in exterior floorings for pedestrian, cycle track and low traffic applications, where seamless floors are required or desired.

Based on expected abrasion on surface, special aggregates can be selected.

Specifications

Max. Aggregate Size	Compressive Strength	
2-8 mm or higher on request	>35 N/mm ²	
Flexure Strength	Bulk Density	Wet Density
>5 N/mm ²	~1700 kg/m ³	~2200 kg/m ³



Complementary Products

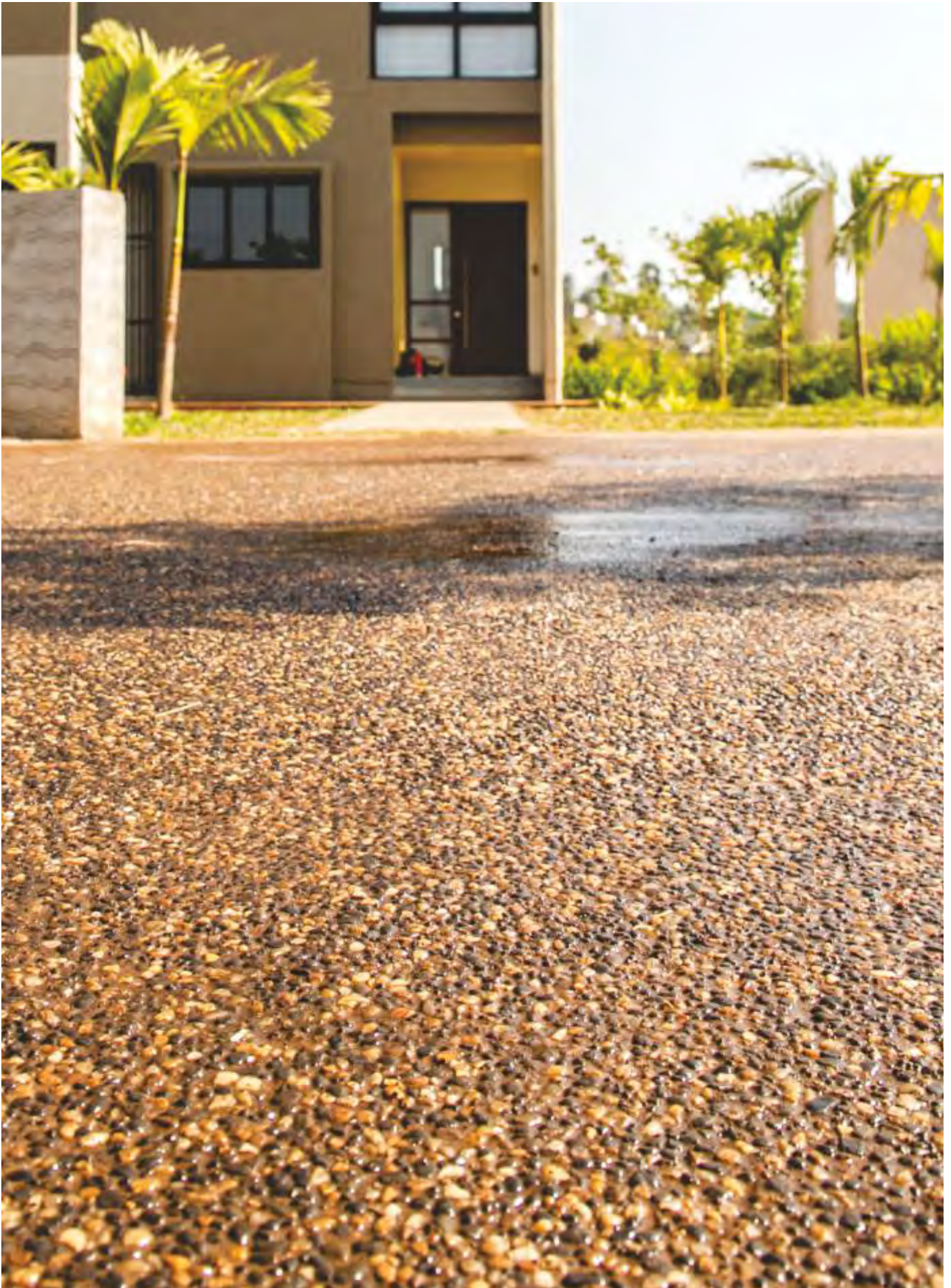
The use of following other products by FreeForm are recommended for best results:

- **Base Materials:** FF Dry Screed | SLU—Self levelling underlayment | Suitable FreeForm Primer
- **Seal and Protect:** FF Densifier | AcrySeal

Pebblewash Catalogue

Please refer to page 24.







The Pebblewash series is created by fortifying the material, keeping in mind the demands of the floor applications. Special care is taken to ensure important characteristics like adhesion, cleanability and efflorescence resistance to the material supplied, which perceptibly improves performance characteristics vis-a-vis the competition.

Its in-situ application helps take care of residual spaces and gives a seamless finish. Minimum Longitudinal falls of 1% and Cross falls of 2-3% are recommended.

NOVASOL

Cast-On-Site Resin Bound Aggregate Floors

With stunning looks and excellent water draining characteristics, Novasol floors are strong and flexible which allows them to be cast in large seamless panels. These are applied on site by approved applicators.

Novasol floors have certain unique beneficial characteristics as follows:

Immediate Drainage: Floors drain quickly with a flow range between 30 to 70 litres per second per square metre. As a result, if the base drainage is proper, there are never any puddles and always a dry surface is available to walk on.

Bespoke Floorings: Aesthetically pleasing bespoke flooring can be made in patterns and combinations required, ensuring unique floor surface for your projects.

Good Heat Reflectance: The system has good heat reflectance and the trapped air between aggregates ensures good thermal insulation, making it an ideal covering for waterproofed terraces and podiums.

UV Resistant: Novasol is offered only in the UV resistant variety as a standard, thereby ensuring that there will be no yellowing, ageing or softening of the floor under years of exposure to sunlight.



Quick Laying: The flooring system enables quick laying and the floor is open to foot traffic in 24 hours after laying. Full cure can happen over 3–4 days.

Good Skid Resistance: The Novasol system offers good skid resistance and so enhanced comfort during walking

Low Maintenance: Very low maintenance is required and Novasol floors can be typically cleaned by water hosing, and if required, gentle scrubbing.

Key features include:



Fast Draining
Dry usable surface



Slight Flexibility in Material
Less cracks | Large panel sizes



Thin Layer Application
Environment friendly



Extensively Tested at Factory
Quality assurance for you



High Consistency of Material
Peace of mind



No Contamination
Better performance

Application

Novasol is suitable for pedestrian usage and light vehicular traffic, and ideal for use on swimming pool decks, garden walkways, terraces etc.

Specifications

Max. Aggregate Size	
8-10 mm. Bigger will be more expensive to lay.	
Wet Density	Output/Coverage
~2000 kg/m ³	~2 kg/mm/m ²

Complementary Products

The use of following other products by FreeForm are recommended for best results:

- **Base Materials:** FF Dry Screed | SLU—Self levelling underlayment | Suitable FreeForm Primer

Novasol Catalogue



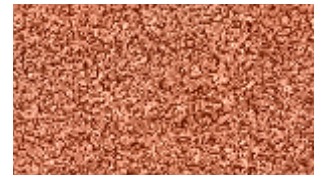
N1



N2



N3



N4



N5



N6



N7



N8



N9



N10



N11



N12

Novasol resin bound floors can be cast in most of the aggregates and impart a permanent or semi-permanent wet look to the aggregates. The resin itself is almost invisible, and only the aggregates themselves remain visible and bound. For the system to work well, aggregates are required to be washed and dried.

Ideal for GeoCellular Grid flooring, Podiums, Terraces, Pool decks, Gardens Patios etc.

STONECRETE

Feature Packed Exposed Aggregate Wall Render



Stonecrete by FreeForm is a cementitious decorative material for walls. The walls can be finished in a washed/exposed finish soon after the rendering application. Skilled workmen are required for application of this material. The high bonding strength of the Stonecrete will avoid repairs, claims and damages that may arise in case of other cladding materials. This leads to significant cost savings.

Wide options with best quality: FreeForm can offer more than 80 colour shades in its products. We use pigments of the finest and most reliable quality to ensure that there are no surprises on final application of product. This also enables consistent reproduction of colour mixes even at later dates.

Exotic and unusual ingredients available for special effects: FreeForm offers the largest range of rare materials such as mother-of-pearl, glass, pebbles, stone chips from all over India and abroad, as exotic aggregates for value added effects for your walls.

Key features include:



High Adhesion to Substrate
Less peeling off | High bonding



Efflorescence Resistance
Better looks | Low maintenance cost



Slight Flexibility in Material
Less cracks | Large panel sizes



Low Rebound
Less wastage in wall material



Water Repellence
Moisture ingress & stain protection



Easy to Clean
Better looking surfaces



Lower Dimensional Shrinkage
Fewer cracks in concrete



Low Requirement of Curing
Less supervision required at site



No Contamination
Better performance



Extensively Tested at Factory
Quality assurance for you



High Consistency of Material
Peace of mind

Application

Good for most walls, exteriors as well as interiors. Can be easily wrapped around wall edges, columns etc.. High adhesion of our product makes it suitable for application like street furniture, treads and risers and others.

Specifications

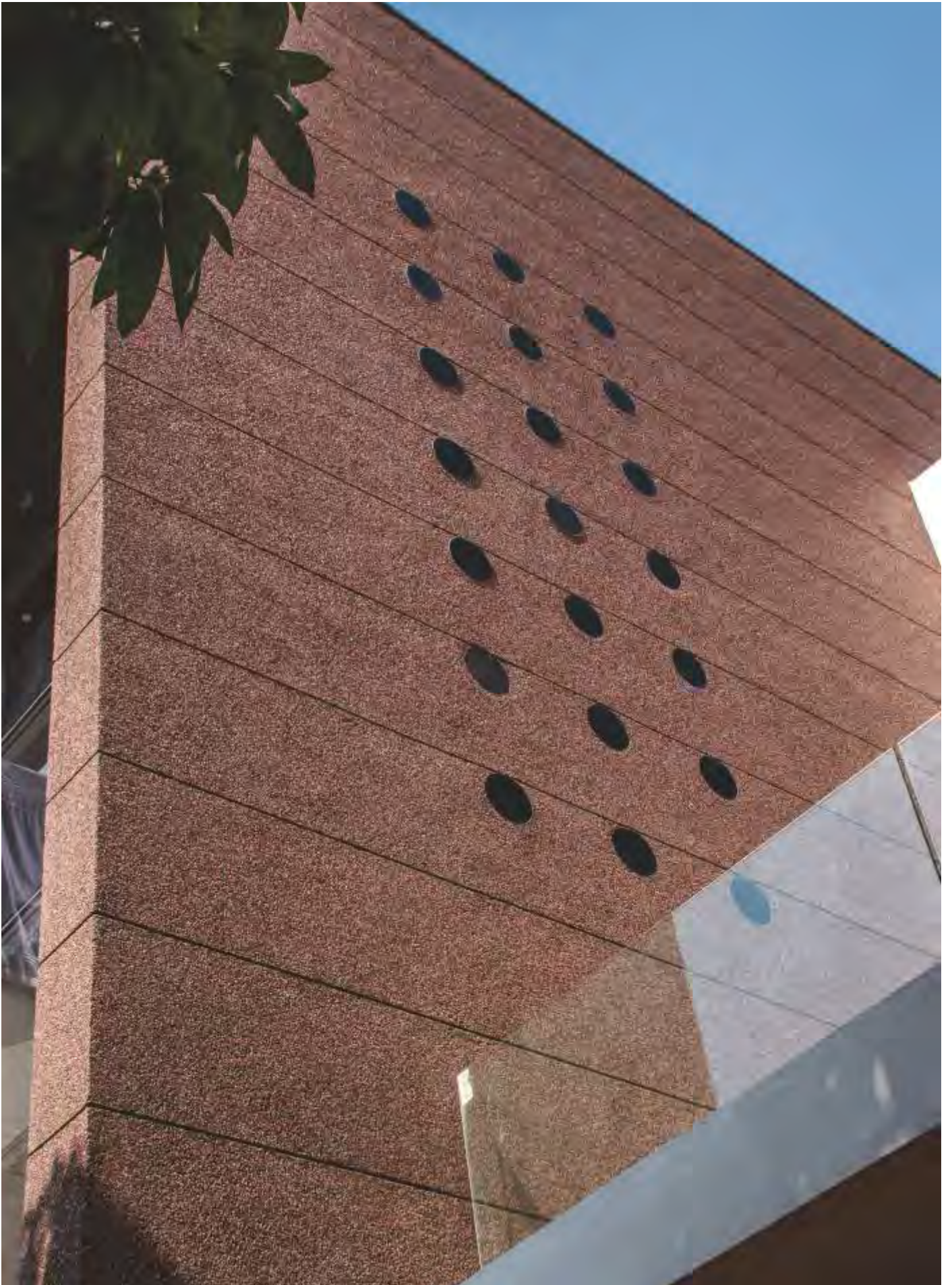
Max. Aggregate Size	Compressive Strength
3-8 mm	>15 N/mm ²
Flexure Strength	Bulk Density
>3 N/mm ²	~1250 kg/m ³
Wet Density	Output/Coverage
~2200 kg/m ³	~2.2 kg /mm/m ²

Complementary Products

The use of following other products by FreeForm are recommended for best results:

- **Base Materials:** FF Ready Mix Plaster | Suitable FreeForm Primer
- **Seal and Protect:** AcrySeal





Stonecrete/Pebblewash Catalogue



S4(N)



S5(N)



S6(N)



S7(P)



S8(P)



S9(P)



S10(N)



S11(G)



S12(N)



S13(N)



S14(N)



S15(N)



S16(G)



S17(G)



S18(G)



S19(G)



S20(G)



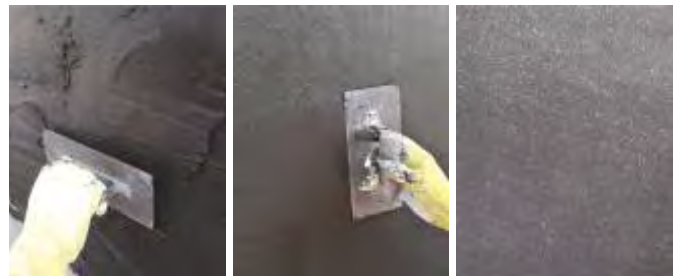
S21(G)

STONECRETE GLISTER

Decorative Washed Plaster with Sparkling Aggregates

Glister by FreeForm is a cementitious decorative material for walls. The walls are finished in a washed/exposed finish after the rendering application. The use of sparkling aggregates adds a nice allure to the surface. Skilled workmen are required for application of this material.

Available in bespoke base colours and numerous aggregate options, the material offers several technically enhanced properties over the conventional cementitious wall renders.



Key features include:

-  High Adhesion to Substrate
Less peeling off | High bonding
-  Efflorescence Resistance
Better looks | Low maintenance cost
-  Slight Flexibility in Material
Less cracks | Large panel sizes
-  Low Rebound
Less wastage in wall material
-  Water Repellence
Moisture ingress & stain protection
-  Easy to Clean
Better looking surfaces
-  Lower Dimensional Shrinkage
Fewer cracks in concrete
-  Low Requirement of Curing
Less supervision required at site
-  No Contamination
Better performance
-  Extensively Tested at Factory
Quality assurance for you
-  High Consistency of Material
Peace of mind

Application

Good for most walls, exteriors as well as interiors. Can be easily wrapped around wall edges, columns etc.. High adhesion of our product makes it suitable for many diverse applications.

Specifications

Max. Aggregate Size	Compressive Strength
4 mm	>8 N/mm ²
Flexure Strength	Bulk Density
>3 N/mm ²	~1650 kg/m ³
Wet Density	Output/Coverage
~2200 kg/m ³	~2.2 kg/mm/m ²

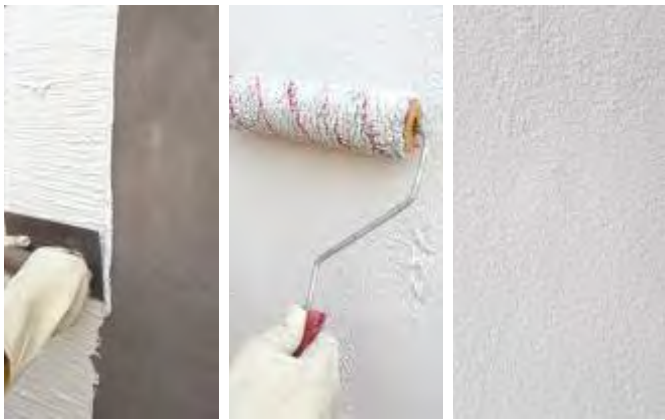
Complementary Products

The use of following other products by FreeForm are recommended for best results:

- **Base Materials:** FF Ready Mix Plaster | Suitable FreeForm Primer
- **Seal and Protect:** AcrySeal

DECORATIVE PLASTERS

High Quality Finish Wall Render—Top Coat












The Decorative Plaster by FreeForm, is a top coat of render or plaster which adds value to the walls. It is generally used to replace paint and impart a permanent finish to the walls. Consisting of carefully selected aggregates and additives, usually made using white cement, the Decorative Plaster can be applied as a top coat on a previous layer of grey plaster/render.

The Decorative Plaster is made as a fairly water tight yet breathable layer which will resist against most weather conditions and is easy to clean.

The Decorative Plaster helps save costs upfront as well as in maintenance.

Key features include:

-  Lower Dimensional Shrinkage
Fewer cracks in concrete
-  Water Repellence
Moisture ingress & stain protection
-  High Adhesion to Substrate
Less peeling off | High bonding
-  Low Rebound
Less wastage in wall material
-  Low Requirement of Curing
Less supervision required at site
-  High Workability
Fast completion of project
-  High Consistency of Material
Peace of mind
-  High Strength
High durability | Low maintenance cost
-  Easy to Clean
Better looking surfaces

Application

For most masonry interior and exterior walls.

Specifications

Max. Aggregate Size	Compressive Strength
2 mm	>9 N/mm ²
Flexure Strength	Bulk Density
>3 N/mm ²	~1575 kg/m ³
Wet Density	Output/Coverage
~2000 kg/m ³	~2 kg/mm/m ²

Variants

Several variants are available depending onsite requirements for tough and extreme jobs, or for machine pumping. Please ask for details.

Complementary Products

The use of following other products by FreeForm are recommended for best results:

- **Base Materials:** FF Ready Mix Plaster | Suitable FreeForm Primer

FORMTEX

RCC Finish Texture for Walls



The FormTex finish for walls replicates the exposed RCC looks. This finish can be created on any plastered wall. Offered in many colour options, FormTex lends an understated but definite elegance to the walls and the spaces.

Application

For most masonry walls in interiors and exteriors.

Complementary Products

The use of following other products by FreeForm are recommended for best results:

- **Base Materials:** FF Ready Mix Plaster | Suitable FreeForm Primer

FF PUTTY

Premium Putty or Skim Coat for Plastered Walls

The FreeForm Putty is an excellent water resistant base material for application on walls, which protects the surface and enables excellent finish of paints. The FF Putty material is supplied in powder form and based on high quality hydrophobic polymers and carefully selected graded aggregates. It produces a fine final base coat. It helps create a durable and stunning final painted walls.

Application

For most plastered surfaces in interiors and exteriors.

Specifications

Max. Aggregate Size	Compressive Strength	
0.5 mm	>7.5 N/mm ²	
Flexure Strength	Bulk Density	Output/Coverage
>3.5 N/mm ²	~1200 kg/m ³	~1.8 kg /mm/m ²



Variants

Several colour options and some textures are possible depending on requirements. The coloured FF Putty option can help altogether avoid the paint coat expense in many applications.

FormTex and FF Putty Catalogue



FT1



FT2



FT3



FT4



FT5



FT6



FT7



FT8



FT9

FF READY MIX PLASTER










High Quality Exterior Renders



The Ready Mix Plaster by FreeForm is a cementitious high quality pre-mixed render in powder form based on high quality hydrophobic polymers, fibres and carefully selected washed and graded aggregates. It produces a fine final finish coat. It helps create a durable and economical render for single or multi-coat application to most building surfaces. The render is fairly water tight and resistant against most weather conditions. It permits free transmission of water vapour. It is possible to use the FF Ready Mix Plaster to a maximum of 12-15 mm thickness in a single layer.

The importance of a good quality render/plaster cannot be over emphasised, as it virtually forms an important part of the skin for any building. FF Ready Mix plaster, which is carefully designed, made from select materials, and in controlled conditions, for repeatable performance will go a long way towards achieving the objective of fine long lasting walls.

Key features include:

-  Lower Dimensional Shrinkage
Fewer cracks in concrete
-  Extensively Tested at Factory
Quality assurance for you
-  High Adhesion to Substrate
Less peeling off | High bonding
-  Low Rebound
Less wastage in wall material
-  Low Requirement of Curing
Less supervision required at site
-  High Workability
Fast completion of project
-  High Consistency of Material
Peace of mind
-  High Strength
High durability | Low maintenance cost
-  No Contamination
Better performance

Application

For most masonry walls in interiors and exteriors.

Specifications

Max. Aggregate Size	Compressive Strength
4 mm	>7.5 N/mm ²
Flexure Strength	Bulk Density
>2.5 N/mm ²	~1650 kg/m ³
Wet Density	Output/Coverage
~2000 kg/m ³	~2 kg/mm/m ²

Variants

Several variants are available depending onsite requirements for tough and extreme jobs, or for machine pumping. Please ask for details.

Complementary Products

The use of following other products by FreeForm are recommended for best results:

- **Base Materials:** Suitable FreeForm Primer

BRICK/BLOCK JOINTING MORTAR

The FF Block and Brick Joint mortar is a pre-mixed, cement-based mortar. It is to be used only with the addition of water. The mortar simplifies and accelerates applications, provides high initial and final adhesive strength, has excellent workability and is suitable for indoor and outdoor applications. Due to the special particle size granulation of the product, the mortar flows slightly but does not collapse under the weight of the masonry units.

Specifications

Water Requirement		Max. Aggregate Size
~26%		2 mm
Compressive Strength		Flexure Strength
>7.5 N/mm ²		>2.5 N/mm ²
Bulk Density	Wet Density	Work Time
~1700 Kg/m ³	~1870 Kg/m ³	60 minutes



COLOURED MORTAR

Exposed brick or stone work is a preferred finish for a lot of architects. FreeForm offers you possibly for the first time in the country, coloured mortars to bind the bricks or stones. Colour of the mortar is customised and can be fairly matched with the intended colour of the final façade- which will provide a unique, value added feel to the wall finish.

The Coloured Mortars from FreeForm are premixed blends of carefully selected materials to ensure a consistent product to fulfill your requirements.

Specifications

Water Requirement		Max. Aggregate Size
~26%		2 mm
Compressive Strength		Flexure Strength
>7.5 N/mm ²		>2.5 N/mm ²
Bulk Density	Wet Density	Work Time
~1700 Kg/m ³	~1870 Kg/m ³	60 minutes



FF CRACKFILL

High Quality Shrink Resistant Crack Repair

FF CrackFill is a cementitious crack filling compound specially designed to be shrink resistant, fast setting and easy to apply. Only water has to be added to make a viscous paste and apply. It can be used for cracks on all interior and exterior absorbent surfaces, cracks and gaps caused by drying and shrinkage.

Due opening, cleaning and priming of cracks will be required before use of the FF CrackFill. Available in Grey and White Colours, it is suitable for use in for repair of cracks from 1 to 10 mm wide.



FF WATERPROOF C

Highly Flexible Waterproofing Compound

The FF Waterproof C is a single component compound developed to produce a durable, single or multi-coat application for waterproofing and protection of cementitious screeds, renders and concrete structures against aggressive atmospheric elements. Material is ready to use with addition of clean water. Available in white and grey colours. Its features include:

- Water vapour permeability
- Bridging of cracks due to shrinkage or settling of substrate
- Accommodation of small movements in the substrate
- Excellent adhesion to many different substrates
- Excellent adhesion after water immersion
- Increased tensile strength, excellent workability and easy application

Application

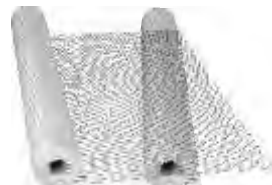
• Basement walls and foundations • Terraces and balconies • Garage roofs • Bathrooms and toilets • Swimming pools • Multifunctional rooftops, e.g. rooftop terraces and parking decks • Underground parking lots • Water-bearing pipes and sewers



FF ARGF NET

High Zirconia AR Glass Fiber Net

ARGF Net is resistant to alkalis, does not decompose and will not rust over time, has a high resistance to tearing and stretching. It protects the surface from cracking and improves its mechanical strength. Recommended for use in waterproofing to obtain a consistent thickness of 2 mm of coat.



FF LATEX L1

Environment Friendly Water-based Latex

FF Latex L1 is designed to improve flexibility of normal and rapid setting cement-based materials. Used as a supplementary binder, it helps create enhanced and flexible two component cementitious waterproof coatings, adhesives and mortars.



FF DRY SCREED

Non-Shrink Cementitious Screed for Base Levelling

The FF Dry Screed is an extremely important non-shrink type of base levelling material that helps smoothen out the imperfections of the substrate.

Use of the FF Dry Screed helps to

- Improve quality and strength of the Flooring: This is relevant as level variations in base can easily lead to failures in topping materials.
- Save costs: Costs in construction of subsequent layers. For example, even when using sometimes very expensive adhesives, the cost can be saved by a good quality well levelled screed.

The FF Dry Screed material can be supplied either as a single component ready to use material along with the aggregates, or only in the mortar form, for aggregates to be added locally.

Application Thickness

The FF Dry Screed is suitable for use in thickness between 20 to 100 mm in single coat for levelling purpose.



Variants

FF Dry Screed by FreeForm is available in **Normal Setting (NS)** and **Rapid Setting (RS)** versions. The RS version gains strength as well as dries out extremely quickly, and allows for an extremely quick next day availability of floor for service.

SLU—SELF LEVELLING UNDERLAYMENT

Self-Levelling, Non-Shrink Underlayment

SLUs are very relevant now as the degree of flatness and smoothness required for floor covering products has increased, with vinyl goods becoming thinner and floor tiles becoming larger, for example.

FreeForm offers fine non-shrink, high quality Self levelling underlayments for most applications. SLUs can be used in 0 to 12 mm thickness. They help create a flat and smooth surface with excellent technical characteristics.

Variants

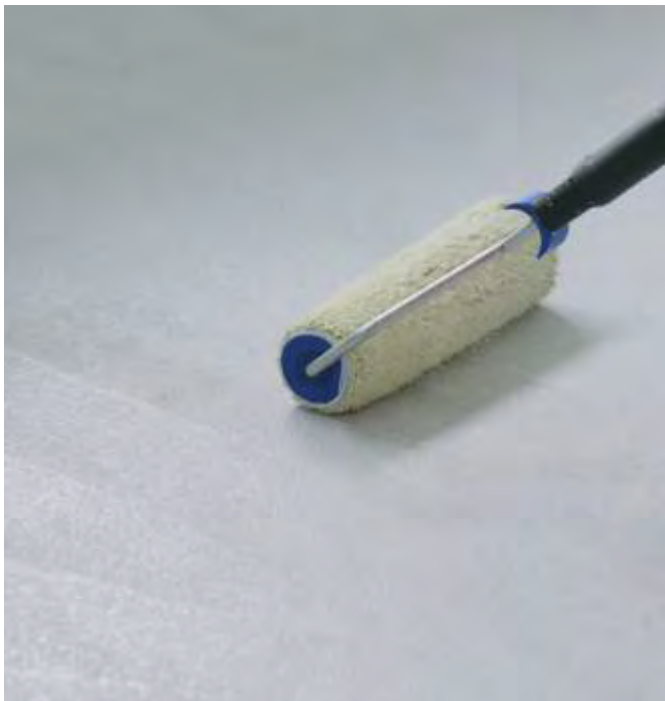
These are available in **Normal Setting (NS)** and in **Rapid Setting (RS)** options.

FreeForm SLU RS has high flow and fast drying characteristics. SLU RS is typically useful in renovation type of applications, when available time is short and the final flooring has to be quickly set. It helps in laying of next floor covering within hours after its installation.



FF PRIMERS

High Quality Primers for Various Applications



FreeForm offers a fine range of world class primers for the preparation of high quality surface finishes.

Though the primer itself is a layer never over 2 mm in thickness, it is a crucial consolidating, protecting and binding material between layers which cannot be overlooked at all.

The correct selection and the application of the primers is of utmost importance for the following reasons:

- Primers provide greater adhesion of levelling compounds/ final screeds to the base—This means, less chances of curling of panels and a more secure installation.
- Allows the overlayers to perform as intended: Providing appropriate flow and best strength development.
- Absorbency Control—Proper priming provides good absorbency control to available floor and reduces chances of drying shrinkage of the top screed and enhances crack control.
- Improved performance by primer application will help against shock and chemical damage.

Primer	Purpose/Usage
Primer C1	Universal dry primer. Cement based, add water to use.
Primer RushCoat	Hack preventer for walls. Use on smooth form finished walls to avoid hacking of surface. Cement based, add water to use.
Primer Consolo	Primer for softer concrete surfaces requiring consolidation. Acrylic resin based, ready to use.
Primer Uni	Suitable for hard surfaces. Universal primer and adhesion promoter. Acrylic resin based, ready to use.
Primer HumiBlock PU	Consolidating Primer that combats humidity, for the treatment of absorbent surfaces or floors including Gypsum based. Solvent free, PU based, Ready to use single component.

Application Fields

On mother slab | On dry or hardened screeds | Before layers before application of further overlayers.

ACRYSEAL

Film Forming Sealer for Protection and Colour Enhancement



AcrySeal is a water based, transparent, film forming, colour enhancing and protective coating material. It is used in the VYARA range of PremierShield protected products, and now offered to customers, in manageable pack sizes. Years of trials and experience has shown the AcrySeal to be among the finest transparent water based acrylic coats.

The life of AcrySeal coat is dependent very much on the usage conditions. It is an impregnating coat and hence the effects are expected to last for 1-2 years in floor applications, but is expected to be much longer on walls and may be more or less depending on usage and local conditions.

CLEARSEAL

Invisible Non-Film Forming Sealer for Protection



ClearSeal is applied as a transparent, invisible, non-film forming impregnation for enhanced resistance against oil, water, dirt and stain. General tendency towards staining of the surface is considerably reduced.

ClearSeal is chemically bonded to the concrete surface, thus giving a long lasting protection. Oil, water and stain forming liquids, like coffee, soft drinks etc. repel on the surface and can be easily removed, e.g. by using an absorptive tissue.

FF DENSIFIER

Concrete Surface Hardener



FF Densifier is a clear silicate based liquid which provides several benefits like hardening, densification and sealing of Concrete surfaces. It is particularly effective and recommended for use in obtaining polished concrete finishes. Normally applied before the final polishing coats, the FF Densifier will make a perceptible difference to the strength and gloss of the polished surface.

FF TERRAZZO GROUT

Grout for Filling of Pores, Pinholes and Joints for Terrazzo Floors



The Terrazzo grout from FreeForm is available in customised colours to match the terrazzo and cement tile floors. The specially formulated grout is used to fill up the pinholes that may open up after initial grinding in cementitious products that require grinding.

Key features include:



High Bonding
Better adhesion



High Strength
High durability | Low maintenance cost



Peace of Mind
More value for money

Application

For Cement based floors like Terrazzo floors, Cement tiles and other cementitious floors.

TECHNILOCK

Polymeric Joint Filling Sand for Paving



TechniLock sand from FreeForm is a polymerised mix of high quality graded joint sand, special aggregates and binders that flows smoothly down joints for a fast and effective installation of pavers or slabs with false, narrow or wide joints. It is recommended for surfaces exposed to heavy traffic, and for high-humidity areas. TechniLock sand starts to set only a few minutes after being activated with water, and quickly becomes resistant to water erosion (rain, splashes, sprinklers, etc.). TechniLock jointing sand offers resistance to weed growth, insect invasion, and erosion.

Key features include:



No Contamination
Better performance



Slight Flexibility in Material
Less cracks | Large panel sizes



Water Repellence
Moisture ingress & stain protection

DIY

Ready to Use Fast Setting Premixed Concrete for DIY Projects



Ready to use DIY pre-mixed high quality concrete material, all care taken—only water is to be added. Be assured of excellent setting, demoulding time and exceptional finish, characteristics much superior to regular concrete.

The DIY Concrete from FreeForm can solve most common self concreting problems for small articles.

Key features include:



High Strength
High durability Low maintenance cost



Lower Dimensional Shrinkage
Fewer cracks in concrete



High Workability
Fast completion of project



Water Repellence
Moisture ingress & stain protection



Low Requirement of Curing
Less supervision required at site



Peace of Mind
More value for money



Efflorescence Resistance
Better looks Low maintenance cost



High Consistency of Material
Peace of mind



Extensively Tested at Factory
Quality assurance for you

Application

Home Articles: Planters, Table tops, Kitchen sink.

Small Repair Works: Articles can be polished or subjected to secondary treatment.

Colour

Customized colour possible.

Variants

Variants for casting larger products up to 1500 mm in size are available in customized colours on request.

Specifications

Max. Aggregate Size		Compressive Strength
10 mm		>35 N/mm ²
Flexure Strength	Bulk Density	Wet Density
>6.5 N/mm ²	~1450 kg/m ³	~2200 kg/m ³

AGGREGATES

Natural stone chips, pebbles and recycled glass

Crushed Stone chips, Pebbles and Recycled Glass can be used either singly or in combinations for various range of FreeForm products like Terrazzo, Novasol, Pebblewash, Stonecrete and Stonecrete Glister. The variety helps create endless permutations and combination of products. Used alone too, these can make for excellent adornments for landscape or interior needs.

As a standard, chips are packed in 25 kg bags. Other packs may be possible on request.

Sizes available: 0–3 mm, 3–8 mm, 8–15mm, 15–25mm.

The colour of the chips will look slightly darker when wet and lighter when dry, owing to water absorbency of the material. This is reflected in the two shades of each photograph below.

Crushed Stone



C1



C2



C3



C4



C5



C6



C7



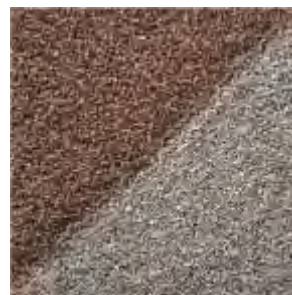
C8



C9



C10



C11



C12

Pebbles and Recycled Glass



P1



P2



P3



P4



P5



P6



P7



G1



G2



G3



G4



G5

FF SYSTEM SECTIONS

It is common knowledge that brilliant products can fail in the absence of proper system design or for poor workmanship. This page provides guidance on how the system has to be constructed or how different products will need to be woven in and set up for proper expected results. Please note though, that these drawings are only a guidance. Based on unique site requirements, individual systems must be constructed with a formal instruction from the local structural or other consultant.

Wall System Sections



Stonecrete



Stonecrete Glistler



Decorative Plaster



FormTex

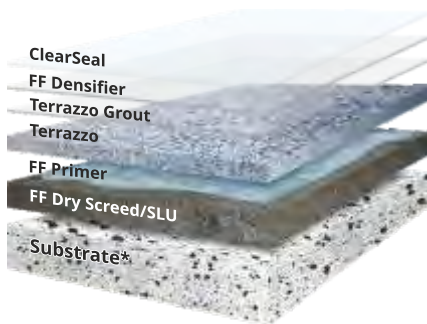


FF Putty



FF MicroCement

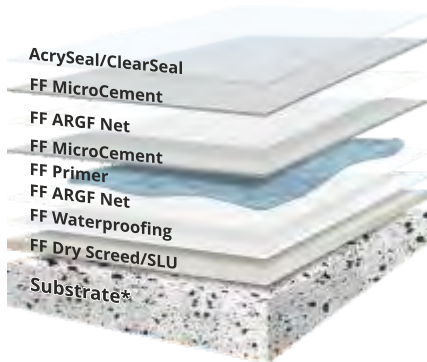
Floor System Sections



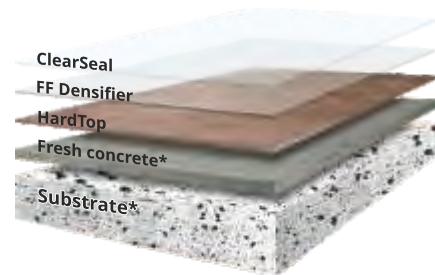
Terrazzo



FF MicroCement



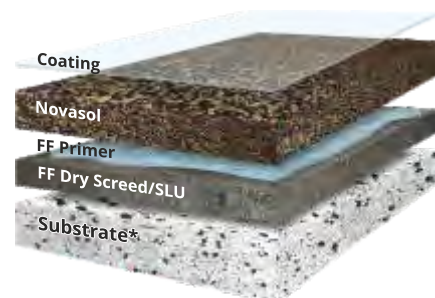
FF MicroCement Waterbodies



HardTop



Pebblewash



Novasol

QUALITY MEASURES



A motto at our parent company VYARA, always has been, “mere lip service to quality is no quality”. To ensure reliability in products supplied to you, we test everything. Our factory laboratory diligently tests samples from all produced material. It is equipped to test products as per requirements of many international standards including the major requirements of:

- EN 13813 Screed material and Floor Screeds
- EN 13892 Methods of test for screed materials (Part 1 to 8)
- EN 998-1 Rendering and Plastering mortar
- EN 998-2 Masonry Mortar
- EN 12004 Tile and Stone adhesives



Available equipment covers facilities for carrying out the following tests:

- Compressive strength test
- Tensile splitting strength test
- Flexural strength test
- Adhesion pull-off strength test
- Abrasion resistance test
- Sets for sieve analysis of raw materials and finished products
- Consistence of fresh mortar by flow table
- Consistence of fresh mortar by plunger penetration
- Initial set time/ Final set time
- Dimensional changes— shrinkage measurement
- Total water absorption
- Bulk density, hardened density
- Stability Ovens

UPCOMING PRODUCTS

At FreeForm, the design process is respected and new products released only in a formal manner. As a part of the continuous processes, products keep getting released on achievement of necessary milestones.

TILES ADHESIVES



Under development and testing are a range of high quality tile and stone adhesives, conforming to requirements of EN 12004 and the IS 15477: 2019.

A proper selection of the adhesives is shortly being offered based on requirements of:

- The tiling material to be used.
- Whether it is to be used in indoor or outdoor application.
- Substrate on which the material is to be laid.

TILES GROUTS



Shortly to be released tile grouts have the following characteristics, which we feel are important:

- Standard and on request, customised colour shades.
- High abrasion resistance—to prevent wearing out under traffic loads.
- Low shrinkage so that joints do not open up.
- Flexibility—so that they can withstand minor movements of the structure.

Important notes applicable for all products

- Specifications will change over time. Instructions and methods will change over time. We expect to keep learning, improving and changing. Please keep checking with us for latest updates. Please use this brochure for indication only.
- Performance of any product is extensively dependent on correct use of complementary products, realization of the entire system, and high quality and experienced workmanship.
- All cementitious materials should be stored away from water or moisture. Try to use up opened packs within 1 or 2 days of opening. Use materials from different packs to reduce chance of any shade variation. Keep Water Cement ratio and Curing conditions consistent to reduce chances of shade variation.
- Data Sheets and Installation methods are available on website www.freeformbyvyara.in, if not, then please ask us.
- Any recommendations for application techniques are based on experiences. It is advisable to adapt processing techniques and material quantities to the given local conditions.
- Though special attention is given to its reduction in the product design, hairline crack formation or deformation by shrinkage on principle cannot be excluded with any of the offered products and thus are not considered as technical defect.
- Coloured products are exclusively produced from natural raw materials. Thus colour deviations cannot be excluded. The printed colour may deviate from the original colour shade. Physical samples and test areas are strongly recommended before usage/execution in larger areas. Colour variations are not to be treated as a defect.



FREEFORM[™]
ARCHITECTURAL DRY MORTARS

Interior, Exterior & Industrial Floors | Wall Finishes | Base Materials | Sealants | DIY

VYARA[®]

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