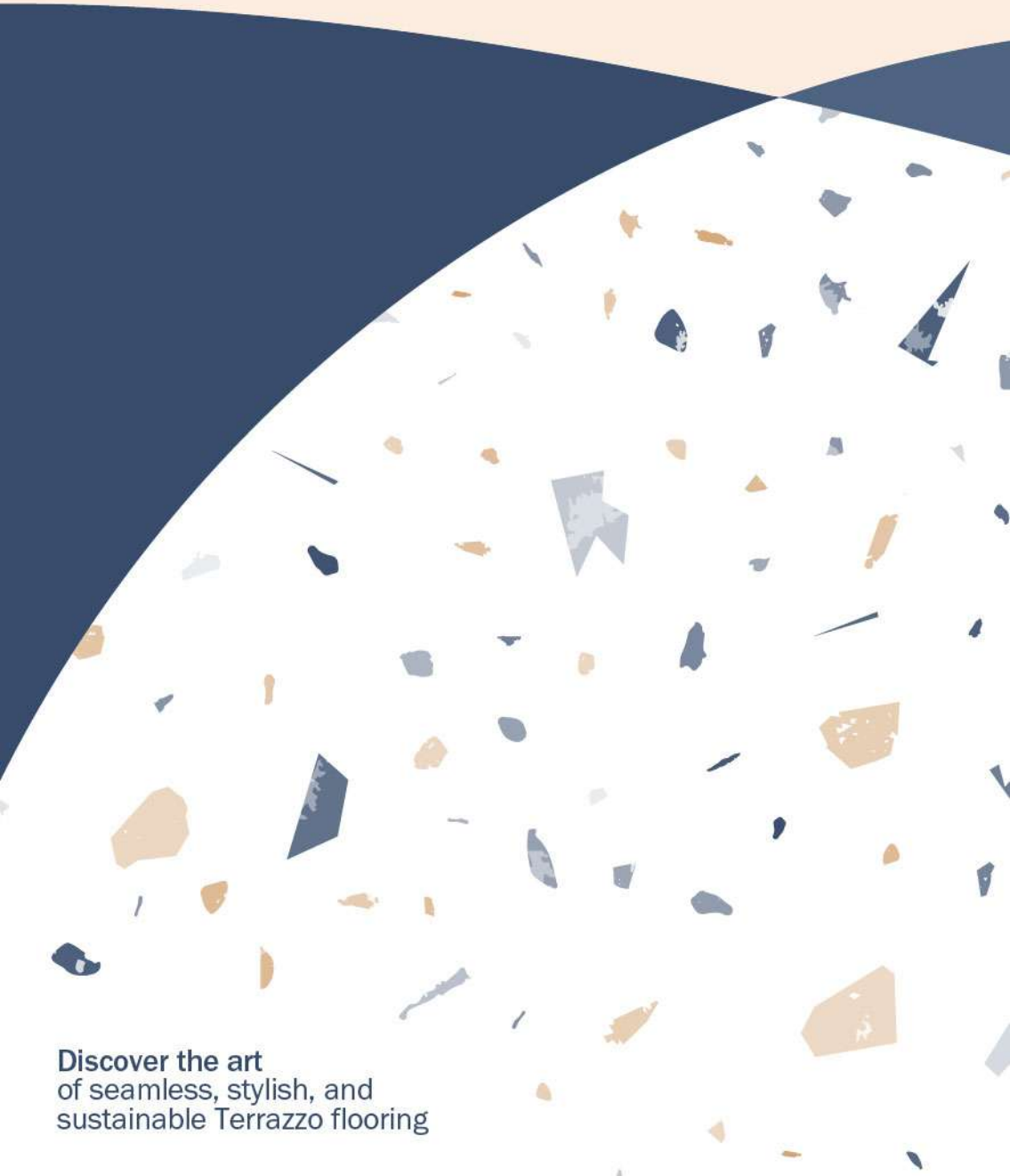
HEMPAFLOOR DECORATE 600 TERRAZZO RESIN

DURABILITY MEETS DESIGN

HEMPEL Paints



Discover the art
of seamless, stylish, and sustainable Terrazzo flooring

WHY CHOOSE HEMPAFLOOR DECORATE 600 TERRAZZO RESIN?

KEY FEATURES & BENEFITS:

1) **Exceptional Durability**
Built to resist cracks, wear, and heavy foot traffic, perfect for high-use environments.

2) **Customisable Design Freedom**
Endless colour and aggregate combinations to match your brand, style, or architectural theme.

3) **Low Maintenance**
Smooth, non-porous surface resists stains and cleans easily, saving time and cost.

4) **Healthier Choice**
Ultra-low VOC, non-toxic formulation supports healthier indoor environments and meets green building standards.

5) **Fast Installation**
Quick curing times and minimal downtime, ideal for renovations and new construction.

6) **Chemical Resistance**
Offers excellent resistance to a wide range of chemicals, making it ideal for demanding industrial and commercial environments.

STEP INTO THE WORLD OF HEMPAFLOOR DECORATE 600 TERRAZZO RESIN

From ancient architecture to modern masterpieces, Terrazzo has long been a hallmark of luxurious, long-lasting flooring. Traditionally made with richly coloured marble, granite chips, and other select aggregates, Terrazzo surfaces are seamlessly bound with pigmented epoxy resin and polished to a finish that stands the test of time.

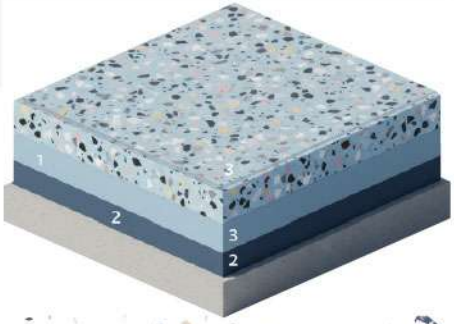
Hempafloor Decorate 600 Terrazzo Resin builds on that tradition with advanced epoxy technology and high-performance formulation, transforming interior surfaces into durable works of art.

Engineered with precision, this system combines high-solids pigmented epoxy resin and a custom blend of marble, quartz, or glass chips. It is poured, ground, and polished on-site to create a smooth, seamless finish with exceptional strength and visual depth.

Ideal for luxury residences, hotel lobbies, hospital corridors, and high-traffic retail spaces, Hempafloor Decorate 600 delivers a perfect balance of timeless elegance, long-term durability, low maintenance, and endless design versatility.

MULTI-LAYERED SYSTEM STRUCTURE

1. Hempafloor Epoxy Primer
2. Hempafloor Decorate 600 Terrazzo
3. Hempafloor Decorate 600 Clear Resin



HEMPAFLOOR DECORATE 600 TERRAZZO RESIN NTMA SPECIFICATION COMPLIANCE.

Our Hempafloor Decorate 600 Terrazzo Clear and Coloured Resin solutions are crafted with precision and passion — setting a new benchmark in flooring excellence. Designed to meet the highest standards of durability, aesthetic appeal, and sustainability, our range caters to the unique demands of every project.

Hempafloor Decorate 600 Terrazzo Resin delivers outstanding tensile and bond strength, ensuring a long-lasting, high-performance surface that stands up to the most demanding environments. With a virtually limitless color palette and a selection of premium aggregates, it unlocks endless design possibilities — from bold contemporary statements to timeless classics.

At every stage — from formulation to finish — our commitment to quality, innovation, and environmental responsibility shines through. That's why architects, designers, and builders trust us to deliver terrazzo solutions that are as enduring as they are inspiring.

1. Hempafloor Epoxy Primer
2. Hempafloor Decorate 600 Terrazzo
3. Hempafloor Decorate 600 Clear Resin

Reinforced crack bridging layer
Optional dispersion surface protection

A LOBBY THAT CAPTIVATES. A SCHOOL THAT INSPIRES.

Richly colored marble, sparkling granite chips, or other selected aggregates are seamlessly combined with high-solids pigmented epoxy resin, then polished to unveil a surface of timeless beauty. With limitless colour options and striking aggregate patterns, create a floor that not only enhances your design but leaves a lasting impression.

Since ancient times, terrazzo has symbolized luxury, durability, and artistic freedom. Today, Hempafloor Decorate 600 Terrazzo Resin carries that legacy forward with advanced materials and cutting-edge technology — offering a flooring solution that's as beautiful as it is resilient.

Installed with precision, this terrazzo system is poured directly on-site, allowing complete control over thickness, consistency, and finish. The result is a monolithic surface with exceptional uniformity, refined detailing, and a level of craftsmanship that elevates both form and function.

Powered by epoxy technology, the surface is exceptionally hard and dense — making it easy to clean, low maintenance, and ideal for high-traffic environments. Whether you're designing a hospital, airport, retail space, or luxury residence, Hempafloor Decorate 600 Terrazzo Resin delivers unmatched performance with timeless style.

DISSECTING A TERRAZZO SAMPLE

MARBLE CHIPS

Terrazzo surfaces can include a mixture of marble or granite chips.

SHELL CHIPS

Regional seashells can be included in a terrazzo design, with mother-of-pearl reflecting light.

GLASS CHIPS

Terrazzo can use recycled glass chips which are often vibrant in many different colours, making them stand out.

COLOUR OPTIONS AND COMBINATIONS

With advanced dispensing technology, our Hempafloor Decorate 600 Terrazzo Resin system can offer an extensive range of colour options, made even more versatile through automated dispensing technology. With the ability to accurately mix and match RAL standard colors to bold, custom hues, we ensure consistent, high-quality results across every batch – whether you're aiming for bold statements or subtle elegance.

This precision-controlled process allows architects and designers to explore a limitless palette, bringing creative visions to life with confidence, consistency, and speed. From classic tones to custom blends, our terrazzo solutions deliver both aesthetic freedom and technical reliability.

HEMPAFLOOR DECORATE 600 TERRAZZO RESIN

Hempafloor Decorate 600 Terrazzo Resin opens the door to limitless design possibilities.

With a wide range of binder colours that can be paired with virtually any aggregate—such as glass, marble, or mother of pearl—you have complete freedom to customise the terrazzo to suit your project's unique aesthetic. The sample formulations of Hempafloor Decorate 600 Terrazzo Resin are fully adaptable, allowing you to modify both colour and aggregate combinations to achieve your desired look.

BUILT TO ENDURE, DESIGNED TO SUSTAIN

EFFORTLESS RENEWAL

A quick clean and fresh sealer keep it looking sharp—repolishing restores its original brilliance even after years of use.

BUILT TO LAST

A dense, resilient surface that stands up to daily wear, keeping its flawless finish over time.

TIMELESS ELEGANCE, LASTING LUXURY

Experience flow.

NTMA TEST PROTOCOL FOR HEMPAFLOOR DECORATE 600 TERRAZZO RESIN WITHOUT AGGREGATE

01 HARDNESS (ASTM D 2240, SHORE D)

REQUIREMENT: 60 TO 85

STATUS: PASS

Hardness Measurement Result

Date of Test:	07/05/2019	Relative Humidity %	50
Ambient Temperature °C	23	Means of testing:	Manual (Hand Held)
Thickness of specimen:	20mm	Number of pieces piled	Not applicable

SHORE D HARDNESS VALUES:	Result
80 ,80 ,79 ,77 ,80	1/D79

02 TENSILE STRENGTH (ASTM D 638 SPECIMEN MADE USING A "C" DIE PER ASTM D 412)

REQUIREMENT: MINIMUM: 3000 PSI

STATUS: PASS

Sample Name: Hempafloor Decorate 45034-600
Specimen Type: Dumbbell Specimen
Type of die used: Die C (Metric Unit) as per ASTM D(2021)16-412

Specimen Number	Thickness (mm)	Width (mm)	Max. Load (N)	Tensile Strength (MPa)	Tensile Strength (psi)
1	0.70	6.00	229	54.5	7902.5
2	0.75	6.00	222	49.4	7163.0
3	0.69	6.00	226	54.5	7902.5
4	0.72	6.00	243	56.2	8149.0
5	0.70	6.00	244	58.2	8439.0
Average				54.6	7911.2
Standard Deviation				3.26	473.0

03 COMPRESSIVE STRENGTH (ASTM D 695, SPECIMEN B CYLINDER)

REQUIREMENT: MINIMUM: 10,000 PSI (68.94760 N/MM²)

STATUS: PASS

Sample Reference	SL No.	Diameter (mm)	Height (mm)	Max. Load (kN)	Compressive Strength (N/mm²)
WD S 0820-240808	1	20.0	40.0	31.6	100.5
	2	20.0	40.0	33.5	106.7
	3	20.0	40.0	29.8	94.7
	4	20.0	40.0	26.5	84.2
	5	20.0	40.0	31.5	100.4
				Average	N/mm² 97.3
				Standard Deviation	8.5

04 CHEMICAL RESISTANCE (SEVEN-DAY IMMERSION AT ROOM TEMPERATURE PER ASTM D 1308)

REQUIREMENT: NO DELETERIOUS EFFECTS

STATUS: CHANGE IN GLOSS

Test result

a) Test Standard: ASTM D20-1308 — Exposure Duration: 7 Days
Test Method: Immersion — Test Condition: 23 °C, %50 RH

Sample Reference	Observation	Result	Type of Effect
Ethanol	Softening & Change in gloss	Softening & Change in gloss	B
Acetic Acid %5	Change in gloss	Change in gloss	B
Hydrochloride Acid %30	Change in gloss	Change in gloss	B
Hydrochloride Acid %10	Change in gloss	Change in gloss	B
Sodium Hydroxide %10	Change in gloss	Change in gloss	B
Soap Solution %1	Change in gloss	Change in gloss	B
Detergent 0.025	Change in gloss	Change in gloss	A
Distilled Water	No sign of loss of adhesion, blistering, cracking, or discoloration were observed – Resistant	Resistant	A
Mineral Oil		Resistant	A
Isopropanol		Resistant	A

ADDITIONAL TEST FOR HEMPAFLOOR DECORATE 600 TERRAZZO RESIN WITHOUT AGGREGATE

05 POT LIFE (ISO 9514)

REQUIREMENT: NA

8.0 Test Result

Test	Unit	Result
51	Minutes	Pot Life at 25°C

STATUS: 51 MINUTES

06 WATER ABSORPTION (ASTM C413)

REQUIREMENT: NA

6.0 Test Result
Type of liquid used: Water

Test No	Initial Weight (g)	Final Weight (g)	Water Absorption (%)
01	141.64	141.86	0.16
02	141.01	141.26	0.18
03	142.73	142.94	0.15
04	140.16	140.41	0.18
05	141.87	142.11	0.17
06	140.31	140.55	0.17
		Avarge %	0.17

STATUS: %0.17

07 CHEMICAL RESISTANCE (ASTM D1308)

REQUIREMENT: NA

6.0 Test Result
a) Test Standard: ASTM D20-1308 — Exposure Duration: 24 Hours
Test Method: Immersion — Test Condition: 23°C, %50 RH

Test Simulant	Observation	Result	Type of Effect
Distilled Water, Cold	No sign of loss of adhesion, blistering, cracking, or discoloration were observed	Resistant	A
Distilled Water, Hot		Resistant	A
Ethanol %50		Resistant	A
Acetic Acid %3		Resistant	A
Detergent Solution %1		Resistant	A
Cocoa		Resistant	A
Lighter Fluid, Kerosene		Resistant	A
Tea		Resistant	A
Fruit		Resistant	A
Oil		Resistant	A
Fats		Resistant	A
Ketchup		Resistant	A
Grease		Resistant	A
Lubricating Oil		Resistant	A
NaOH %10 ,Alkali Solution	Change in gloss	Change in gloss	B
HCl %10 ,Acid Solution	Change in gloss	Change in gloss	B
%1 Soap Solution	Change in gloss	Change in gloss	B
Coffee	Change in gloss	Change in gloss	B

STATUS: CHANGE IN GLOSS

08 FLEXURAL STRENGTH (ASTM C580)

REQUIREMENT: >20 N/MM²

Sl. No	Test Description		Test Result
9.1	Sample description	9.1.1 Manufacturer	Hempel Paints
		9.1.2 Product trade name	Hempafloor Decorate 45043 - 600
		9.1.3 Generic type	Two component Solvent free epoxy paint
		9.1.4 Lot number	N.G
9.2	Specimen size and method used	9.2.1 Method used	Method A
		9.2.2 Bar dimensions (mm)	320 × 25 × 25
		9.2.3 Testing span (mm)	210
9.3	Mixing ratio and component weights		Base: Hardener = 10 : 70 by volume
9.4	Conditioning procedure and duration in days		7 Days at 25°C
9.5	Test conditions		23°C and %50 RH
9.6	Load deflection curve		

9.7	Test Result	Specimen number 9.7.1	1	2	3	4	5
		(N/mm²) Flexural Strength 9.7.2	47.5	44.5	66.2	60.3	56.2
		(N/mm²) Average Flexural Strength 9.7.3	56.7				

STATUS: 56.7 N/MM²

09 RESISTANCE TO FUNGI (ASTM G15-21)

REQUIREMENT: RESISTANCE

4.0 Test Results

Test Duration	Test Description	Test Description
Week #1	No Growth (None)	0
Week #2	No Growth (None)	0
Week #3	No Growth (None)	0
Week #4	No Growth (None)	0
Final Rating as per ASTM	0	

Conclusion:
Final rating scale of 0 as per ASTM G15-21 indicates that analyzed sample have a good resistance to mold growth under the controlled test conditions.

STATUS: RESISTANCE

NTMA TEST PROTOCOL FOR HEMPAFLOOR DECORATE 600 TERRAZZO RESIN WITH AGGREGATE

Mixing ratio of Aggregate

Mixing ratio between Hempafloor Decorate 600 – 45043 and aggregates – (60% No1 chip + 40% No 0 chip)

60% No. 1 chip
40% No. 0 chip

1:3 by volume as per NTMA specifications

NO.	TEST	REQUIREMENT	RESULTS	STATUS
01	FLAMMABILITY (ASTM D 635)	SELF-EXTINGUISHING, EXTENT OF BURNING 4/1 INCH MAXIMUM		PASS
02	COEFFICIENT OF LINEAR THERMAL EXPANSION (ASTM D 696)	0.000025 INCH/INCH PER DEGREE F ($^{5-}10 \times 1.38889$ K^{-1})		PASS
03	BOND STRENGTH (ASTM D7234)	300 PSI IN CONCRETE		PASS

Test Results
Test Method: ASTM D22-635 / UL 94 Condition A: Minimum 48 hours, 2 ± 23°C & %5 ± 50 RH
Mode of Test: Horizontal Burning

Sample No	Sample Thickness (mm)	Burning Beyond 25 mm		Burning Rate L/t 60 = V (mm/min)	Flame Class
		Time, t (Sec)	Damaged Length, L (mm)		
1	13.01	30	0	0	Horizontal burning
2	13.00	30	0	0	Horizontal burning
3	12.96	30	0	0	Horizontal burning
4	13.01	30	0	0	Horizontal burning
5	12.96	30	0	0	Horizontal burning

Test Results:

Parameter	Test Method	Unit	Result
Coefficient of linear thermal (°Average K) expansion	ASTM D696:2024	^{1-}K	$^{6-}10 \times 9.32$

Note:
The results mentioned in form of coefficient of linear thermal expansion based on the calculation 0.0000167760 inch/inch per degree Fahrenheit.

Product Name	Hempafloor Decorate 45043 – 600			
Test Method	ASTM D22-7234			
Specimen Reference	1	2	3	4
Test Location	In House – Laboratory Testing			
Test Position	Vertical	Vertical	Vertical	Vertical
Substrate used	Concrete	Concrete	Concrete	Concrete
Diameter of steel dolly (mm)	50	50	50	50
Maximum Load Recorded (N)	6340	7630	7030	6500
Pull off Adhesion Strength (MPa)	3.23	3.89	3.58	3.31
Pull off Adhesion Strength (psi)	468.4	563.7	519.4	490.3
Percentage of Failure	A: %0 B: %100 Y: %0	A: %0 B: %100 Y: %0	A: %0 B: %100 Y: %0	A: %0 B: %100 Y: %0
Mode of Failure	Coheshe failure observed from sample			
Average Pull off Adhesion Strength	psi 508.0			
Average Pull off Adhesion Strength	MPa 3.50			

Mixing ratio of Aggregate	60% No. 1 chip 40% No. 0 chip
Mixing ratio between Hempafloor Decorate 600 – 45043 and aggregates – (60% No1 chip + 40% No 0 chip)	1:3 by volume as per NTMA specifications

NO.	TEST	REQUIREMENT	RESULTS	STATUS
04	COEFFICIENT OF LINEAR THERMAL EXPANSION (ASTM D 696)	CLASS I	This test is not included in the NTMA specification. Its purpose is to determine the Critical Radiant Flux, which measures the minimum amount of heat energy required to sustain the burning of a flooring material under radiant heat exposure. This value is expressed in watts per square centimetre (W/cm²) and indicates the fire resistance and flame-spread behaviour of the material. In simpler terms, a higher Critical Radiant Flux means the material is more resistant to fire and requires greater heat exposure before igniting and spreading flames. This is crucial for safety in hallways, exits, and transportation vehicles, where flooring materials need to minimize fire risk. According to the International Building Code 2018 (Section 804.2), NFPA 101 Life Safety Code 2021 (Chapter 10.2.7.4), and NFPA 5000 Building Construction & Safety Code 2021 (Chapter 10.2.6.4), the Critical Radiant Flux classifications are as follows: • Class I: Critical Radiant Flux of **not less than 0.45 W/cm²** • Class II: Critical Radiant Flux of not less than 0.22 W/cm² but less than 0.45 W/cm² The test results show a Critical Radiant Flux of **1.1 W/cm²**, meaning that the Decorate 600 flooring material qualifies as Class I.	CLASS I
05	ELECTRICAL RESISTANCE (ASTM F150)	NA	Table 1 Applied Voltage: 100V Location (Ω) 1: 7.92×10^{11} Location (Ω) 2: 1.12×10^{13} Location (Ω) 3: 1.13×10^{13} Location (Ω) 4: $>10^{13}$ Location (Ω) 5: $>10^{13}$ Location (Ω) 6: $>10^{13}$ Location (Ω) 7: $>10^{13}$ Location (Ω) 8: $>10^{13}$ Key Words: P - Pass, F- Fail, N/A - Not Applicable	$> 10^{12}$ Ω
06	SLIP RESISTANCE (ASTM E303)	NA	7.0 Test Results Specimen Number: 1, 2, 3, 4 BPN Value (Dry Condition): 94, 94, 96, 94 BPN Value (Wet Condition): 62, 60, 58, 62 Temperature of test surface: 23° C Test surface – Type: Concrete Test surface – Age: days 7 Test surface – Condition: 23° C & 50% RH Test surface – Texture: Rough Test surface – Location: Center portion of the specimen surface Type and source of aggregate: Not applicable Type and age of rubber slider: Type – CEN Rubber (Hardness= 55–60), Age – 1 month	DRY 94.5 / WET 60.5


HEMPEL
Hempafloor

- Endless design possibilities.
- Effortless application with compact film build-up.
- Uniquely elegant patterns with a wide range of colour options.
- Easy maintenance with effortless colour matching.

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