MATERIAL SAFETY DATA SHEET

Fuga-Pave Fibre Reinforced Mortar Additive (Part A)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

1.1 PRODUCT IDENTIFIER: Fuga-Pave Fibre Reinforced Mortar Additive (Part A)

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:
Intended use: PC1 A Fibre Reinforced Mortar Additive for the use with external Porcelain

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

Tilers Tools
Unit 4A Stretton Distribution Centre
Off Grappenhall Lane
Appleton
Warrington
WA4 4QT
Tel: 01565 344860
E-mail: sales@tilerstools.co.uk

1.4 EMERGENCY TELEPHONE NUMBER: 44 (0) 1782 524 140

SECTION 2: HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

CLASSIFICATION UNDER CLP
Skin corrosion/irritation, Category 2, H315
Serious eye damage/Eye irritation, Category 1, H318
May cause respiratory irritation, Category 3, H335

2.2 LABEL ELEMENTS:

LABEL ELEMENTS UNDER CLP

HAZARD STATEMENTS:	H302	Harmful if swallowed
	H315	Causes skin irritation
	H318	Causes serious eye damage/Eye irritation
	H335	May cause respiratory irritation

SIGNAL WORDS: Danger

HAZARD PICTOGRAMS

PRECAUTIONARY STATEMENTS

PREVENTION:	P102	Keep out of reach of children
	P261	Avoid breathing dust
	P264	Wear protective gloves and eye protection
	P280	Wear protective gloves/protective clothing/eye protection/face protection
	P301 + P312	If swallowed: Call poison centre or doctor/physician if you feel unwell
	P310	Immediately call a poison centre or doctor/physician
	P332 + P313	If skin irritation occurs: Get medical advice/attention
	P305 + P351 + P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
	P501	Dispose of contents/container in accordance with local/regional regulations

2.3 OTHER HAZARDS

HUMAN HEALTH

When the cement-based powder is mixed with water, a strong alkaline paste is produced. When set, cement-based products may cause both irritant and allergic dermatitis. Irritant contact dermatitis is due to a combination of the wetness, alkalinity and abrasiveness of the constituent materials. Allergic contact dermatitis is caused mainly by the sensitivity of the individual's skin to hexavalent chromium salts.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 MIXTURES:

NAME	CAS -No	EINECS No	CHIP Classification	CLP Classification	Content
Ordinary Portland Cement	65997-15-1		Xi; R41	Skin Corr./Irr. Cat 2:H315 Ser. Eye Dam./Eye Irr. Cat 1; H318	30 – 60%

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

AFTER INHALATION: Move affected personnel into fresh air
If nose or airways become inflamed seek medical attention.

AFTER INGESTION: Wash out mouth with clean water. Do not induce vomiting.
Drink plenty of water.
If symptoms develop or persist seek medical attention.

AFTER CONTACT WITH SKIN: Remove contaminated clothing
Wash affected area thoroughly with soap and water.
If discomfort or irritation develops seek medical attention.

AFTER CONTACT WITH EYES Make sure that any contact lenses are removed before rinsing opened eye using plenty of clean water for at least 15 minutes. Seek medical attention if discomfort persists.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED
Irritant and allergic contact dermatitis

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED
Skin irritation. Seek medical advice if discomfort or irritation persist. Show this safety data sheet to the doctor in attendance.

SECTION 5: FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA
Product is non-flammable. Use extinguisher appropriate for the surrounding materials.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE
Fine dust clouds may form explosive mixtures with air

5.3 ADVICE FOR FIRE FIGHTERS Product is non-flammable.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES
6.1.1 *For non-emergency* personnel
Wear suitable protective clothing – refer to section 8.
Avoid contact with skin or inhalation of spillage, dust or vapour.

6.1.2 *For emergency personnel*
Wear suitable protective clothing – refer to section 8
Avoid contact with skin or inhalation of spillage, dust or vapour.

6.2 ENVIRONMENTAL PRECAUTIONS
Avoid material entering drains or water courses or onto the ground.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP
Dampen spillage with water.
Absorb in vermiculite, dry sand or earth and place into containers. Shovel into dry containers. Cover and move the containers. Flush the area with water.

6.4 REFERENCE TO OTHER SECTIONS
Sections 8 and 13 should be referred to.

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING
Ensure good ventilation
Avoid skin and eye contact
Avoid the generation of airborne dust

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIEs
Store in tightly closed original containers
Store in dry, well ventilated areas at temperatures of 5 – 32^{o}C
Protect from frost and damp conditions

7.3 SPECIFIC END USE(S) No special requirement.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTOL PARAMETERS

INGREDIENT NAME	CAS No	STD	LT EXP – 8 HRS
Ordinary Portland Cement	65997-15-1	WEL	30mg/m^3 total inhalable dust 12mg/m^3 respirable dust

(WEL = Workplace Exposure Limit)

8.2 EXPOSURE CONTROLS

ENGINEERING MEASURES:	Provide adequate ventilation including local extraction to ensure that the defined exposure limit is not exceeded. Provide eyewash station
RESPIRATORY EQUIPMENT:	If ventilation is insufficient, suitable respiratory protection must be provided
HAND PROTECTION:	Use suitable protective gloves.
OTHER PROTECTION:	Wear appropriate clothing to prevent any possibility of skin contact.
HYGIENE MEASURES:	DO NOT SMOKE IN WORK AREA. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

(a) Appearance:	Off-white cement-based powder
(b) Odour:	No odour
(c) Odour threshold:	Not determined
(d) pH:	Not applicable/Alkaline when wet
(e) Melting point/freezing point:	Not applicable
(f) Initial boiling point and boiling range:	Not applicable
(g) Flash point:	Not applicable
(h) Evaporation rate:	Not applicable
(i) Flammability (solid/ gas):	Not applicable
(j) Upper/lower flammability or explosive limits:	Not applicable
(k) Vapour pressure:	Not applicable
(l) Vapour density:	Not applicable
(m) Relative density:	~1.5 – 1.6
(n) Solubility(ies):	Not determined
(o) Partition co-efficient; n-octanol/water:	Not determined
(p) Auto-ignition temperature:	Not determined
(q) Decomposition temperature:	Not determined
(r) Viscosity:	Not applicable
(s) Explosive properties:	Not determined
(t) Oxidising properties:	Not determined

9.2 OTHER INFORMATION

Not applicable

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY
Stable when stored correctly

10.2 CHEMICAL STABILITY
Stable when stored correctly

10.3 POSSIBILITY OF HAZARDOUS REACTION
Stable

10.4 CONDITIONS TO AVOID
Protect from frost
Avoid contact with acids
Do not store in damp, wet or humid conditions

10.5 INCOMPATIBLE MATERIALS
Strong acids, strong oxidising agents

10.6 HAZARDOUS DECOMPOSITION PRODUCTS
Carbon Dioxide (CO_2) and Carbon Monoxide (CO) are created by high temperatures or fire.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

INHALATION:	May cause irritation to the respiratory system. May cause damage to mucous membranes in nose, throat, lungs and bronchial system. Harmful: Danger of serious damage to health by prolonged exposure through inhalation.
INGESTION:	May cause severe irritation of the mouth, oesophagus and the gastrointestinal tract.
SKIN CONTACT:	The product contains a small amount of sensitising substance which may provoke an allergic reaction among sensitive individuals after repeated contact.
EYE CONTACT:	Risk of serious damage to eyes. May cause chemical eye burns.

11.1.2 SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS
Repeated exposure in excess of the WEL has been linked with rhinitis and coughing. Skin exposure has been linked to allergic chromium dermatitis.

SECTION 12: ECOLOGICAL INFORMATION

12.1 TOXICITY
The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms

12.2 PERSISTANCE AND DEGRADABILITY
No data available

12.3 BIOACCUMULATIVE POTENTIAL
No data available

12.4 MOBILITY IN SOIL
The product is non-volatile.
The product is insoluble in water and will sediment in water systems. After hardening product is non-toxic

12.5 RESULTS OF PBT AND vPvB ASSESSMENT
No data available

12.6 OTHER ADVERSE EFFECTS
No data available

SECTION 13: DISPOSAL CONSIDERATIONS
In accordance with local authority regulations
Contaminated Packaging: Empty bags or surplus product can be disposed of as building site or commercial waste.

13.1 WASTE TREATMENT METHODS

SECTION 14 TRANSPORT INFORMATION

14.3 TRANSPORT HAZARD CLASS(ES)

ROAD TRANSPORT:	Not classified as hazardous
RAIL TANSPORT:	Not classified as hazardous
SEA TANSPORT:	Not classified as hazardous
AIR TRANSPORT:	Not classified as hazardous

14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 AND THE IBC CODE

SECTION 15: REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATIONS SPECIFIC FOR THE SUBSTANCE OR MIXTURE
SPECIFIC REGULATIONS: This product is classified as a mixture. CLP classification for information only.

15.2 CHEMICAL SAFETY ASSESSMENT
A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

SECTION 16: OTHER INFORMATION
This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010

LEGAL DISCLAIMER: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

FUGA-PAVE ABC

Complete Paving System

MATERIAL SAFETY DATA SHEET

FUGA-PAVE Part B Fibre Reinforced Cement Based Primer

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

1.1 PRODUCT IDENTIFIER: FUGA-PAVE Part B Fibre Reinforced Cement Based Primer

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:

Intended use: PC1 Cement based Primer for the use with external porcelain

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

Aquacut Limited Trading as Tilers Tools
Unit 4A Stretton Distribution Centre
Off Grappenhall Lane
Appleton, Warrington
Cheshire
WA4 4QT
Tel: 01565 344860
E-mail: sales@tilerstools.co.uk

1.4 EMERGENCY TELEPHONE NUMBER: 44 (0) 1782 524 140

SECTION 2: HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

CLASSIFICATION UNDER CLP

Skin corrosion/irritation, Category 2, H315

Serious eye damage/Eye irritation, Category 1, H318

May cause respiratory irritation, Category 3, H335

2.2 LABEL ELEMENTS:

LABEL ELEMENTS UNDER CLP

HAZARD STATEMENTS:	H302	Harmful if swallowed
	H315	Causes skin irritation
	H318	Causes serious eye damage/Eye irritation
	H335	May cause respiratory irritation
SIGNAL WORDS:	Danger	

HAZARD PICTOGRAMS

PRECAUTIONARY STATEMENTS

PREVENTION:	P102	Keep out of reach of children
	P261	Avoid breathing dust
	P264	Wear protective gloves and eye protection
	P280	Wear protective gloves/protective clothing/eye protection/face protection
	P301 + P312	If swallowed: Call poison centre or doctor/physician if you feel unwell
	P310	Immediately call a poison centre or doctor/physician
	P332 + P313	If skin irritation occurs: Get medical advice/attention
	P305 + P351 + P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
	P501	Dispose of contents/container in accordance with local/regional regulations

2.3 OTHER HAZARDS

HUMAN HEALTH

When the cement-based powder is mixed with water, a strong alkaline paste is produced. When set, cement-based products may cause both irritant and allergic dermatitis. Irritant contact dermatitis is due to a combination of

the wetness, alkalinity and abrasiveness of the constituent materials. Allergic contact dermatitis is caused mainly by the sensitivity of the individuals skin to hexavalent chromium salts.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 MIXTURES:

NAME	CAS -No	EINECS No	CHIP Classification	CLP Classification	Content
Calcium Hydroxide	1305-62-0	215-137-3	Xi; R36/38	Skin Corr./Irr. Cat 2:H315 Ser. Eye Dam./Eye Irr. Cat 1; H318 STOT – Single exposure: Respiratory tract irritation, Cat 3, H335	1 – 5%
Ordinary Portland Cement	65997-15-1		Xi; R41	Skin Corr./Irr. Cat 2:H315 Ser. Eye Dam./Eye Irr. Cat 1; H318	30 – 60%

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

AFTER INHALATION: Move affected personnel into fresh air

If nose or airways become inflamed seek medical attention.

AFTER INGESTION:

Wash out mouth with clean water. Do not induce vomiting.
Drink plenty of water.
If symptoms develop or persist seek medical attention.

AFTER CONTACT WITH SKIN

Remove contaminated clothing
Wash affected area thoroughly with soap and water
If discomfort or irritation develops seek medical attention.

AFTER CONTACT WITH EYES

Make sure that any contact lenses are removed before rinsing opened eye, using plenty of clean water for at least 15 minutes.

Seek medical attention if discomfort persists.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Irritant and allergic contact dermatitis

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Skin irritation. Seek medical advice if discomfort or irritation persist. Show this safety data sheet to the doctor in attendance.

SECTION 5: FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Product is non-flammable. Use extinguisher appropriate for the surrounding materials.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

None

5.3 ADVICE FOR FIRE FIGHTERS Product is non-flammable.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

6.1.1 *For non-emergency* personnel

Wear suitable protective clothing – refer to section 8.

Avoid contact with skin or inhalation of spillage, dust or vapour.

6.1.2 *For emergency personnel*

Wear suitable protective clothing – refer to section 8

Avoid contact with skin or inhalation of spillage, dust or vapour.

6.2 ENVIRONMENTAL PRECAUTIONS

Avoid material entering drains or water courses or onto the ground.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Dampen spillage with water.

Absorb in vermiculite, dry sand or earth and place into containers. Shovel into dry containers. Cover and move the containers. Flush the area with water.

6.4 REFERENCE TO OTHER SECTIONS

Sections 8 and 13 should be referred to.

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Ensure good ventilation

Avoid skin and eye contact

Avoid the generation of airborne dust

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIEs

Store in tightly closed original containers

Store in dry, well ventilated areas at temperatures of 5 – 32^{o}C

Protect from frost and damp conditions

7.3 SPECIFIC END USE(S) No special requirement.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTOL PARAMETERS

INGREDIENT NAME	CAS No	STD	LT EXP – 8 HRS
Calcium Hydroxide	1305-62-0	WEL	5mg/m^3
Ordinary Portland Cement	65997-15-1	WEL	10mg/m^3 total inhalable dust 4mg/m^3 respirable dust

(WEL = Workplace Exposure Limit)

8.2 EXPOSURE CONTROLS

ENGINEERING MEASURES: Provide adequate ventilation including local extraction to ensure that the defined exposure limit is not exceeded. Provide eyewash station

RESPIRATORY EQUIPMENT: If ventilation is insufficient, suitable respiratory protection must be provided

HAND PROTECTION: Use suitable protective gloves.

OTHER PROTECTION: Wear appropriate clothing to prevent any possibility of skin contact.

HYGIENE MEASURES: DO NOT SMOKE IN WORK AREA. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

(a)	Appearance:	Off-white cement-based powder
(b)	Odour:	No odour
(c)	Odour threshold:	Not determined
(d)	pH:	Not applicable/Alkaline when wet
(e)	Melting point/freezing point:	Not applicable
(f)	Initial boiling point and boiling range:	Not applicable
(g)	Flash point:	Not applicable
(h)	Evaporation rate:	Not applicable
(i)	Flammability (solid/ gas):	Not applicable
(j)	Upper/lower flammability or explosive limits:	Not applicable
(k)	Vapour pressure:	Not applicable
(l)	Vapour density:	Not applicable
(m)	Relative density:	~1.5 – 1.6
(n)	Solubility(ies):	Not determined
(o)	Partition co-efficient; n-octanol/water:	Not determined
(p)	Auto-ignition temperature:	Not determined
(q)	Decomposition temperature:	Not determined
(r)	Viscosity:	Not applicable
(s)	Explosive properties:	Not determined
(t)	Oxidising properties:	Not determined

9.2 OTHER INFORMATION

Not applicable

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY

Stable when stored correctly

10.2 CHEMICAL STABILITY

Stable when stored correctly

10.3 POSSIBILITY OF HAZARDOUS REACTION

Stable

10.4 CONDITIONS TO AVOID

Protect from frost

Avoid contact with acids

Do not store in damp, wet or humid conditions

10.5 INCOMPATIBLE MATERIALS

Strong acids, strong oxidising agents

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Carbon Dioxide (CO_2) and Carbon Monoxide (CO) are created by high temperatures or fire.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

INHALATION: May cause irritation to the respiratory system.

May cause damage to mucous membranes in nose, throat, lungs and bronchial system.

Harmful: Danger of serious damage to health by prolonged exposure through inhalation.

INGESTION: May cause severe irritation of the mouth, oesophagus and the gastrointestinal tract.

SKIN CONTACT: The product contains a small amount of sensitising substance which may provoke an allergic reaction among sensitive individuals after repeated contact.

EYE CONTACT: Risk of serious damage to eyes. May cause chemical eye burns.

11.1.2 SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS

Repeated exposure in excess of the WEL has been linked with rhinitis and coughing. Skin exposure has been linked to allergic chromium dermatitis.

SECTION 12: ECOLOGICAL INFORMATION

12.1 TOXICITY

The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms

12.2 PERSISTANCE AND DEGRADABILITY

No data available

12.3 BIOACCUMULATIVE POTENTIAL

No data available

12.4 MOBILITY IN SOIL

The product is non-volatile.

The product is insoluble in water and will sediment in water systems. After hardening product is non-toxic

12.5 RESULTS OF PBT AND vPvB ASSESSMENT

No data available

12.6 OTHER ADVERSE EFFECTS

No data available

SECTION 13: DISPOSAL CONSIDERATIONS

In accordance with local authority regulations

Contaminated Packaging: Empty bags or surplus product can be disposed of as building site or commercial waste.

13.1 WASTE TREATMENT METHODS

SECTION 14 TRANSPORT INFORMATION

14.1 TRANSPORT HAZARD CLASS(ES)

ROAD TRANSPORT:	Not classified as hazardous
RAIL TANSPORT:	Not classified as hazardous
SEA TANSPORT:	Not classified as hazardous
AIR TRANSPORT:	Not classified as hazardous

14.2 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 AND THE IBC CODE

SECTION 15: REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATIONS SPECIFIC FOR THE SUBSTANCE OR MIXTURE SPECIFIC REGULATIONS: This product is classified as a mixture. CLP classification for information only.

15.2 CHEMICAL SAFETY ASSESSMENT

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

SECTION 16: OTHER INFORMATION

This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010

LEGAL DISCLAIMER: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

FUGA-PAVE Flex CH (Cement-Hybrid) GROUT
Technical Data sheet

Fuga-Pave Flex CH is a resin-cement for grouting ceramic and porcelain tiles, mosaics, natural stone and concrete products It is available in a 5 colours. Fuga-Pave Flex CH is a Green product.

The ground-breaking hybrid grout Fuga-Pave Flex CH is ideal when decorating any surface in porcelain, ceramic tiles, mosaic, natural stone and concrete products.

Fuga-Pave Flex CH achieves performance characteristics such as water-repellence, very low water absorption, high surface hardness, high resistance to the most common acidic substances and total colour uniformity.

Rating 4*

- Regional Mineral ≥ 60%
- Recycled Mineral ≥ 30% CO2 ≤ 250 g/kg
- VOC Very Low Emission
- Recyclable

* Rating based on average colour formulations

Attributes

- Fine-grain finish
- Superior flexibility
- Water-repellent compound with water-drop effect
- High CATAS-tested chromatic uniformity
- 5 colour collection
- Easy to clean and maintain
- Suitable for underfloor heating systems
- Can be recycled as mineral inert material, avoiding waste disposal costs and environmental impact
- Naturally antibacterial

Innovative hybrid technology.

Areas of application

High-performance grouting of joints from 0 to 20 mm, with smooth finish, high degree of hardness, water-repellence with water-drop effect.

Materials to be grouted: - porcelain tiles, low thickness slabs, ceramic tiles, klinker, cotto, glass and ceramic mosaic, of all types and formats - natural stone, recomposed materials, marble.

Intended use: - internal and external flooring and walls, in domestic, commercial and industrial applications and street furniture, in environments subject to heavy traffic, also in areas subject to thermal shock and freezing - swimming pools, tanks and fountains - underfloor heating systems.

Do not use on joints more than 20 mm in width, on floors and walls where specific chemical resistances or absolutely no water absorption are required; to grout elastic expansion or fractionising joints; on substrates which are highly deformable, not perfectly dry or subject to moisture rising

INSTRUCTIONS FOR USE

Preparation of substrates

- Before grouting joints, check that tiles have been laid correctly and are anchored perfectly to the substrate.
- Substrates must be perfectly dry.
- Grout joints in accordance with BS 5385, parts 1-5 and the recommended waiting time indicated on the relative data sheet for the adhesive used. For mortar substrates, wait at least 7 – 14 days depending on screed thickness, ambient weather conditions and on the level of absorption of the covering and the substrate. WARNING: Any water or moisture rising can cause salt to build up on the surface of the grout or cause shade variations on account of the uneven evaporation of remaining water through the grout.

Joints must be free from any excess adhesive or mortar, even if already hardened, and must be of an even depth of at least 2/3 of the overall thickness of the tile covering, to avoid any variations in colour.

In the case of highly absorbent tiles or high temperatures, the surface of the tiles should be dampened prior to grouting the joints, in order to prevent any water stagnation.

Before grouting with contrasting colours to the tiles, make sure they can be cleaned. It is advisable to perform a preliminary test on tiles not to be laid.

Preparation

Prepare Fuga-Pave Flex CH in a clean container, first of all pouring in a quantity of water equal to approximately 3⁄4 of the amount required. Gradually add Fuga-Pave Flex CH to the container, mixing the paste from the bottom upwards with a low-rev (≈ 400/min) helicoidal agitator. Add more water until the desired consistency is obtained. The mixture must be of smooth consistency and without any lumps. For best results, and to mix larger quantities of the grout, a stirring device with vertical blades and slow rotation is recommended.

Specific polymers with high-dispersion properties ensure that Fuga-Pave Flex CH is immediately ready for use. Mix a quantity to be used within 60 min. at +23 °C 50% R.H. The amount of water to be added, indicated on the packaging, is an approximate guide and will vary depending on the different colours. It is possible to obtain mixtures with consistency of variable thixotropy according to the application to be made. Adding extra water does not improve the workability and the cleanability of the grout and may cause shrinkage in the plastic phase of drying and result in less effective final performance. Prepare all mixtures required to complete the process using the same amount of water in order to avoid any variations in grout shade.

Application

Fuga-Pave must be applied evenly on the tile covering with a spreader or hard rubber float. Grout material has to be completely filled between entire joint areas, the application has to be done diagonally with respect to the joints. Remove most of the excess grout immediately, leaving only a thin film on the tile.

Cleaning

Begin cleaning the tiles when the grout is touch dry into the joint. On completion, clean up the surface using a thick, large-sized sponge damped in clean water to avoid removing grout from the joints. Make sure clean water is used at all times. The use of a tilers washboy is the preferred method for cleaning as this will leave the joints smooth and even, without the use of excessive water.

Use circular movements to emulsify the film of hardened grout on the tiles. Finish cleaning up by dragging the sponge diagonally across the tiles while applying water evenly over the tiles in order to prevent any shade variations. Residual traces of grout can be removed from tools with water before the product has hardened.

Special notes

When using Fuga-Pave Flex CH to grout joints in large surface areas, use suitable electrical equipment to increase application speed and cleaning times. In particular, cleaning with electric sponge machines can be easily carried out and ensures superior coverage and perfect results in aesthetic terms.

Before grouting highly porous surface coverings, or at high temperatures, it is advisable to wipe a damp sponge over the surface to counteract the porosity or to cool the surface, being careful not to cause water to stagnate in the joints.

It is recommended to use materials from the same production batch throughout.

Approved for marine use.

Certificates and marks

- ANSI
- 118.7 13007-3
- MEETS OR
- EXCEEDS CG2 WA
- S-P-01208

TECHNICAL DATA*

- Appearance - coloured pre-mixed
- Apparent volumetric mass ≈ 1.22 kg/dm3 UEAtc/CSTB 2435
- Average granulometric composition ≈ 70 µm
- Mixing water: - 5 kg bag ≈ 1.125 l / 20 kg bag ≈ 4.5 l / 1 bag 20 kg
- Shelf life: - 20 kg bag ≈ 12 months in the original packaging in dry environment
- Specific weight of the mixture ≈ 1.86 kg/dm3 UNI 7121
- Pot life ≥ 50 min.
- Temperature range for application from +5 °C to +35 °C
- Width of joints from 0 to 20 mm
- Grouting after laying: - with adhesive see characteristics of adhesive –
    - mortar ≈ 7 – 14 days
    - Foot traffic ≈ 3 hrs
    - Foot traffic at +5 °C ≈ 10 hrs
    - Foot traffic at +35 °C ≈ 2 hrs
    - Interval before normal use ≈ 24 hrs
    - Ready for use at +5 °C ≈ 3 days
    - Ready for use at +35 °C ≈ 8 hrs
    - Ready for use in swimming pools ≈ 3 days

PERFORMANCE*

VOC Indoor Air Quality (IAQ) - Volatile organic compound emissions

- Conformity EC 1 GEV-Emicode GEV certified 9522/11.01.02
- HIGH-TECH Flexural strength after 28 days ≥ 2.5 N/mm2 EN 12808-3
- Compressive strength after 24 hrs ≥ 15 N/mm2 ISO 13007-4.1.4
- Compressive strength after 28 days ≥ 15 N/mm2 ISO 13007-4.1.4
- Resistance to frost-thaw cycles: - flexural ≥ 2.5 N/mm2 EN 12808-3 - compressive ≥ 15 N/mm2 EN 12808-3
- Resistance to abrasion after 28 days ≤ 1000 mm3 EN 12808-2
- Water absorption after 30 min. ≤ 2 g EN 12808-5
- Water absorption after 240 min. ≤5 g EN 12808-5
- Colour Fastness see colour chart UNI EN ISO 105-A06
- Resistance to fungal contamination class F+ CSTB SB-2018-144
- Resistance to bacterial contamination class B+ CSTB SB-2018-142
- Working temperature from -40 °C to +90 °C Conformity CG2 WA ISO 13007-3

*Values taken at +23 °C, 50% R.H. and no ventilation. Data may vary depending on specific conditions at the building site.

WARNING

- Product for professional use
- In swimming pools, check the suitability of the product based on the type of water and the type of chemical or physical treatment used
- Grout shades are not reproducible and may even vary during application, as a result of application techniques and ambient conditions during and immediately after the grout has been applied
- Workability times may vary considerably, depending on environmental conditions and on tile and substrate absorbency
- Protect the grout from direct rainfall and sun for at least 12 hours after application
- In warm climates cool the surface and mix the grout with cold water
- Grouting joints on substrates that are still damp will cause variations in the grout
- If necessary, ask for the safety data sheet
- For any other issues, contact Tilers Tools, 01565 344860, sales@tilerstools.co.uk