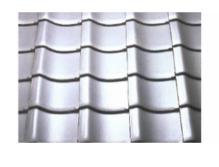




What's Kawara Chip

Kawara Road will be constructed using roof tiles used in traditional Japanese houses.

It is a material that helps improve the environment.



















In Japan, it is used in the SDG's environmental improvement movement.













ABOUT US



Provide materials



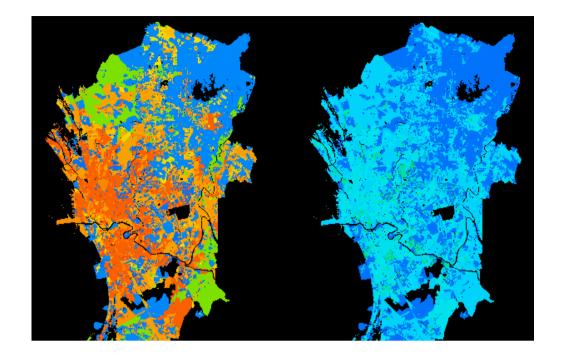
Consulting

Because it is made from tiles fired at high temperatures, it has been tested and confirmed to be safe in accordance with Japan's "Environmental Standards for Soil Contamination Based on the Basic Environmental Law."

We can provide it at a lower price than natural materials.

We will give a lecture on the construction of tile chips and help improve the environment.

The characteristics of tile chips are porous, so they have water permeability, water retention, and air permeability, and can be used as pipe wrapping materials, soil improvement materials, aggregates, organic culture soil, gardening, mulching materials, roadbed materials, hydrophobic materials for underdrains, and water quality. It can be used in a wide range of fields such as filter media.





Values

Heat island countermeasures



Great water permeability

Excellent scenery Color variations





Value recognized by Japan



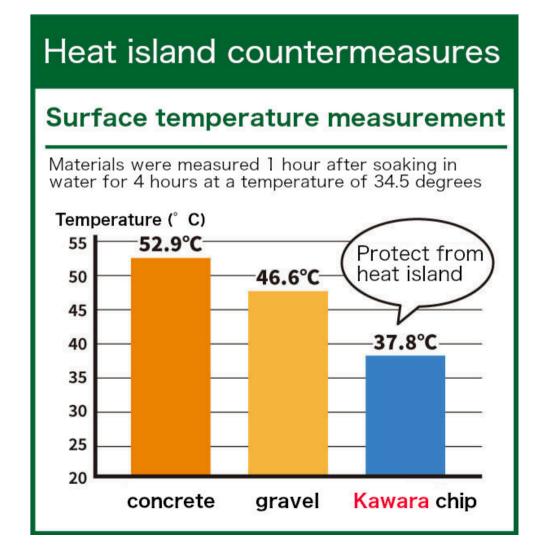
The heat island effect is alleviated



- Due to the voids in the paved surface and the building itself, there is little heat conduction and it is difficult for heat from sunlight to accumulate, which helps alleviate the heat island effect.
- Because it has excellent breathability, there is less glare compared to asphalt or concrete even in the summer.
- It has excellent water retention and reduces temperature rise due to the sprinkling effect (heat of vaporization).

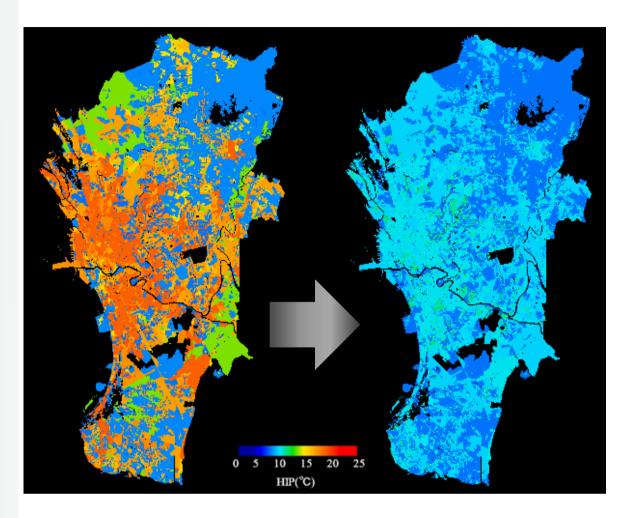
We can expect an effect of 15.5°C as a measure against the heat island in the Philippines.

After soaking in water for about 4 hours on a midsummer day at 34.5°C (outside temperature), we measured the sample after 60 minutes, and found that the temperature of this product was 53.9°C on concrete pavement, compared to 20mm white gravel (our own product), 46.6°C. The result was 37.8°C for the tile chip.



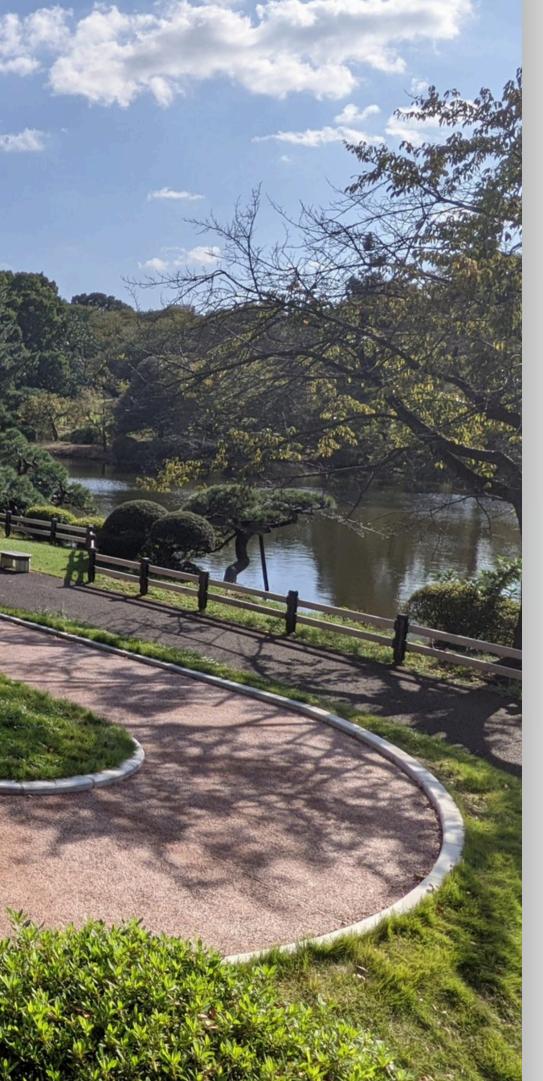


The heat island effect is alleviated



By using tile chips on roads, expressways, and parks, we can help combat global warming throughout the Philippines.





Excellent scenery Color variations

Because it is a natural material, it will not fade and will keep your landscape looking beautiful for a long time.

In addition, texture paint allows it to be used in a variety of locations and applications.

Base Color



Chip Size



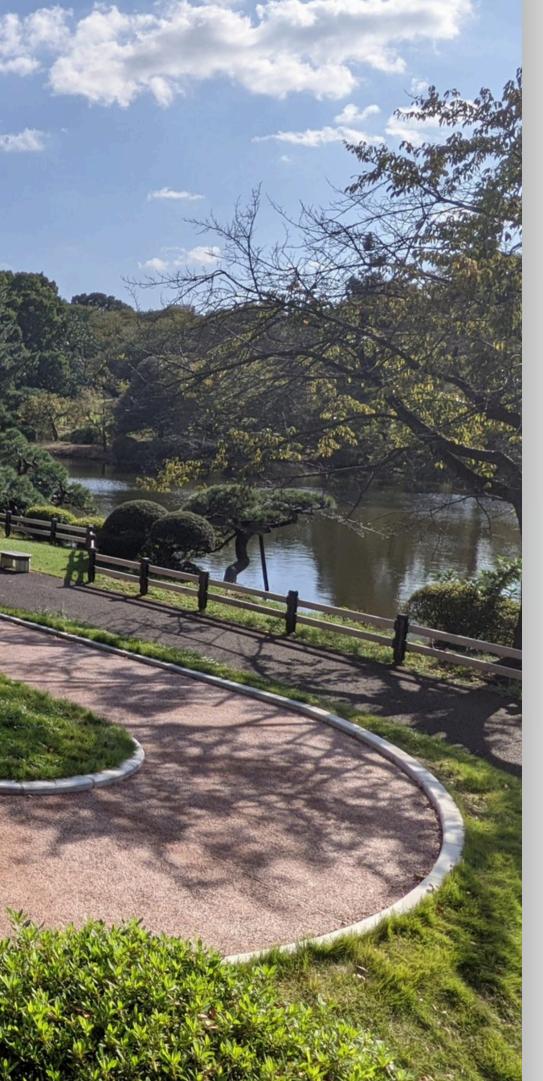






Custom made texture





Excellent scenery Color variations

There is a high degree of freedom in design, and the beauty of the natural material Kawara stands out.















Regarding road flooding measures

It has good water permeability and returns rainwater to the earth.

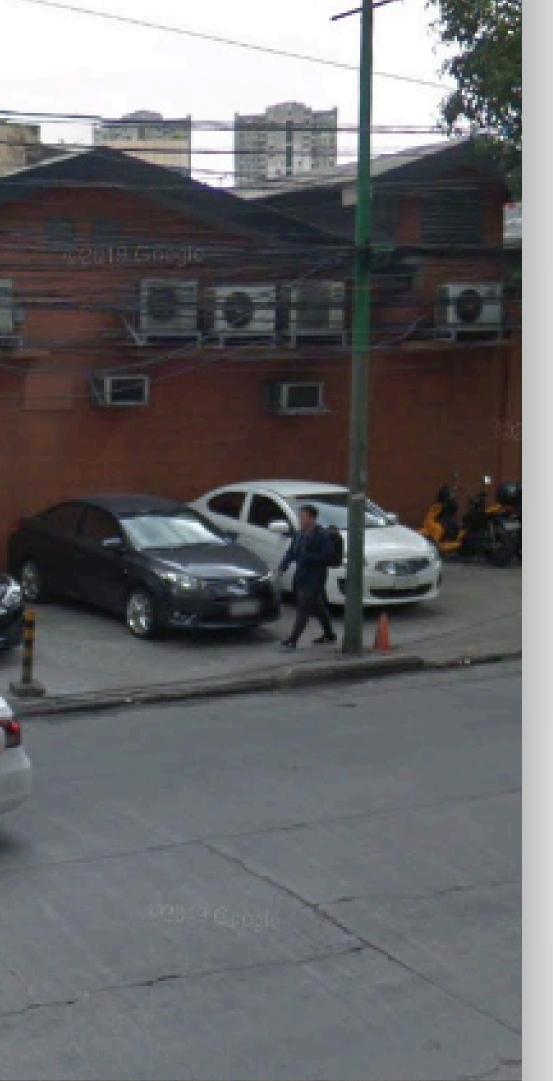


Water permeability experimental results 400cc Number of seconds when flowing down

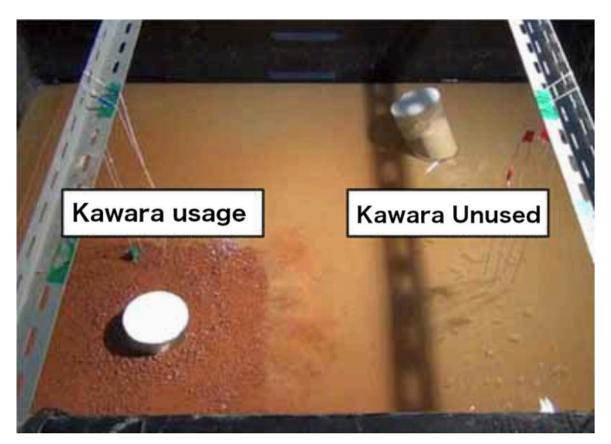
	400CC
Normal	5.49 sec
Color texture	4.16 sec



Dry from the surface so your feet don't get wet



Regarding road flooding measures



Using Kawara chips has the effect of preventing liquefaction and water puddles.

You can expect drastic effects on rainy days or the day after it rains. The photo below is an example of how a parking lot where water could accumulate was improved using roof tile chips. This photo was taken the day after it rained.

Kawara Unused



Kawara usage





This product is licensed in Gifu Prefecture, Japan.

認定番号340

記事ID:0010941 2022年3月1日更新 🚦 <u>廃棄物対策課</u> 👂 <u>印刷ページ表示</u> 😝 <u>大きな文字で印刷ページ表示</u>

岐阜県リサイクル認定製品

品目:再生土木資材

製品名:瓦チップ





認定番号		340
認定年月日(現在)		令和4年3月1日
認定有効期限		令和7年2月28日
認定事業者		一般社団法人瓦チップ研究会
所在地郵便番号		〒501-3306
所在地住所		加茂郡富加町大山字北野1000番地
電話番号		0574-54-1188
FAX番号		0574-54-3010
循環資源	循環資源名	陶磁器くず (廃瓦)
	循環資源使用 割合	100%
	循環資源仕入 先	(有) 立川実業(岐阜県内、愛知県内)
その他原材料		
製造所所在地	(有) 立川実業:加茂郡富加町大山字北野1000番地	
販売場所	(一社) 瓦チップ研究会岐阜指定工場(有)立川実業	
製品紹介	瓦チップは、日本家屋の解体時の廃瓦をリサイクルした製品です。 瓦チップの特性は、多孔質のため透水性・保水性・通気性があり、管巻材、土壌改良材、骨材、有機培養土、ガーデニング、マルチング材、路盤材、暗渠用疎水材、水質る過材等幅広い分野で活用できます。 0-3mm、3-4mm、0-5mm、5-10mm、10-30mm、0-30mm等幅広い粒度に対応し、使用用途により必要とする規格を定め、試験成績書を添付することにより、常に安心して使用できます。 高温焼成された瓦が原料であるので、「環境基本法の規定による土壌の汚染に係る環境基準」に基づく検査を行い安全が確認されております。 天然資材と比較し、安価で提供できます。 大量に排出される廃瓦を計画的に破砕、分別されるために、安定供給が可能です。	

Kawara Chip

Durability

5 years or more

Wear resistance

100 mg or less (Japanese Standard: 200mg or less)

slip resistance value

70 BPN and above (Japanese Standard 40BPN)

Repair

Partial repair possible

Test standards

JIS A 1102 JIS A 1110 JIS A 1122 JIS A 1137 JIS A 1205

OUR SERVICE

- We realize planned shipments and stable supply.

 We ship from Nagoya port in Japan and safely ship to a port in the Philippines.
- 02 We guarantee safety using Japanese standards.
- 03 We will give a lecture on how to use and construct materials.

EXPERIENCE

Kawara chip usage history





Construction was carried out with careful consideration to the ground and water drainage. It is painted so that it is easy for drivers to understand.

Case 2 Field road





By using K-Grand Court, we were able to construct a new road with a vivid appearance. In addition, the natural color of the tiles makes the sidewalk stand out, leading to increased driver awareness of pedestrians.

Case 3 Parking





In parking spaces for people with disabilities, we improved visibility by implementing color paving, which is made by pulverizing and adjusting the particle size of waste tiles that used to be reclaimed as aggregate, and adding pigments to a special emulsion.

Thank you

OUR TEAM



一般社団法人 才技能支援協力会

Talent and Skills Support Cooperation Association

Yukinari Oguri

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- https://saiginou.or.jp

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有限会社立川実業

Tachikawaritsugyou Corp.

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- 2 1000 Oyama, Tomika-cho, Kamo-gun, Gifu Prefecture