

# HQS-C huaqiansu

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——Admixture for lean production of bonding mortar, thermal insulation mortar, repair mortar, reinforcement mortar, etc.

## Uses

HQS-C huaqiansu is mainly used for lean production of thermal insulation mortar, repair mortar, reinforcement mortar, waterproof mortar, as well as ceramic tile adhesive, marble adhesive, cultural stone adhesive, vitrified tile adhesive, mosaic adhesive, pointing agent and other kinds of polymer adhesive mortar for paving and pasting caulking facing bricks.

## Advantages

HQS-C huaqiansu can catalyze the activation of cement bonding activity, increase the workability and water retention of cement, and improve the viscosity and adhesion of cement.

## Dosage

The dosage of HQS-C huaqiansu for products with different uses and technical requirements is also different, generally between 1.5-3.5%.

## Formulation technology of polymer bonded mortar

### ■ Ceramic tile adhesive formula (kg/t)

According to the current industry standard JC/T547-2017<Ceramic Tile Adhesive>, the formula of ceramic tile adhesive is:

P.042.5 Ordinary Portland cement/kg	fine sand/kg	HQS-C huaqiansu/kg
400	600	7.5

### ■Marble binder formula (kg/t)

According to the current industry standard JC/T547-2017 Ceramic Tile

Adhesive, the formula of marble adhesive is:

P.042.5 Ordinary Portland cement/kg	fine sand/kg	HQS-C huaqiansu/kg
400	600	12.5

## Facing brick paving technology

### ■Base treatment

(1) The new concrete base shall be cured for at least 28 days before laying bricks.

(2) The new plastered base surface shall be cured for at least 7 days before laying bricks.

(3) Remove the residue, release agent, oil stain, wax stain and other loose matters on the base layer,the base surface with paint shall be rough, and at least 80% of the original base shall be exposed.

(4) If the base layer has high water absorption or is constructed under high temperature and dry environment, it must be watered first.

### ■Mixing

(1) Weigh the adhesive and mix it with a small electric mixer or a high-speed mixer.

(2) Weigh the water and add it into the bucket, start the agitator,add the adhesive slowly while stirring until it is all added, and continue stirring for

4~5min.After standing for about 1 min, stir it again until the uniform and dough free slurry is ready for use.

(3) Construction in winter or at low temperature and negative temperature,warm water  $\leq 65\text{ }^{\circ}\text{C}$  shall be used.



## ■ Paving

(1) Use a tooth-shaped spatula to evenly scrape the adhesive mortar onto the base surface, each time covering an area of about  $1\text{m}^2$  (depending on the weather and temperature), then knead and press the facing brick onto the base surface, and use a rubber hammer to knock and level it.

(2) If the groove gap on the back of facing brick is deep or large and heavy, the construction method of applying adhesive mortar on the base surface and the back of the brick board shall be adopted.

(3) The construction temperature should be  $5\text{-}40^{\circ}\text{C}$ .during construction in rainy days, shelter protection measures must be taken to ensure that the construction area is not soaked by rain within 24h after paving.



### ■ Caulking

After paving, depending on the weather and temperature, the joint can be filled 24-36h later.



### ■ Reference dosage

The specification of tooth-shaped trowel shall be selected in consideration of the flatness of the base surface and the concave-convex degree of the back of the facing brick. The adhesive mortar shall be uniform and fully coated with the facing brick. The thickness of the adhesive layer shall be controlled above 1/2 height of the tooth pitch of the tooth-shaped trowel used.

Generally, paste small size facing brick, use 6mm × 6mm toothed spatula; paste large size facing bricks, use 10mm × 10mm or 12mm × 12mm toothed spatula. When using different tooth type spatulas, the empirical reference dosage table is:

scraper tooth depth (mm)	adhesive mortar dosage (kg/m <sup>2</sup> )
6mm×6mm	3.5
10mm×10mm	5.0
12mm×12mm	7.5

## Packaging, storage and transportation

The packaging specification of this product is 20kg/bag, or 2.0kg/bag.

This product should be stored in a dry and ventilated environment to avoid rain, water, moisture, and sun exposure. The unopened shelf life is 12 months.

This product is nonflammable, non-explosive, non-toxic and tasteless, and does not contain heavy metals, halogenated hydrocarbons, benzene series, formaldehyde, VOC and other harmful substances. It can be stored and transported as general goods.

## Statement on data and other recorded contents

- The data recorded in this document are based on typical experimental values, so there is no guarantee for the recorded content.
- Before use, please confirm the detailed use method and precautions according to this information and product safety data.
- When using, your company must carry out a prior test to confirm whether it meets the use purpose and safety.
- The contents of this document are subject to change without notice.



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