

PRODUCT DATA SHEET

weberfix stone back 456

(Formerly known as E.MIX STONE BACK 456)

White polymerized cementitious bedding coat for Reconstituted stone and low water absorption tile

PRODUCT

weberfix stone back 456 is a two component polymer modified cementitious adhesive for bedding coat for Reconstituted stone. It can be simply achieved by mixing a pre-packed dry-mixed powder with a formulated latex admixture. It has high bond strength with various cement based materials and low shrinkage to prevent Reconstituted stone & low water absorption tile from debonding. **weberfix stone back 456** provides excellent waterproofing barrier to prevent water and stain from adhesive layer to affect the stone.

Uses

- Extra adhesion that increase bond strength for Reconstituted stone to stone adhesive
- Waterproofing on stone back to prevent water and stains diffuse into the stone
- Suitable for low water absorption tiles, such as homogeneous tile

Features and Benefits

- Water and alkaline resistance to prevent cementitious materials diffuse into the stone structure
- Enhance bond strength at the interface of stone / low water absorption tile
- Highly flexible with good durability
- White colour mortar which will not affect the stone surface appearance
- Pre-packed component: fixed mixing proportion, ensure the quality of work
- Good workability: simple brush or towel
- Non-toxic: environmentally friendly

TECHNICAL DATA

	Part A	Part B
Packing	30 KG (dry-mixed powder)	10 L (latex admixture)
Colour	White	Milky white
Component	White Portland cement, non-reactive aggregate, polymer binder and waterproofing additive	
Max. aggregate size	0.5 mm	
Mixing ratio	10 L latex admixture/ 30 KG bag	
Density	1.1 KG/L (dry) 1.6 KG/L (wet)	
Pot life	Approx. 2 hours	
Thickness	Approx. 1-2 mm	
Theoretical consumption	Approx. 33 - 40 m ² / package	

Page 1 of 3



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PHYSICAL PROPERTIES

Drying time		< 3 hours
Adhesion to concrete	EN 1348 , GB 24264 Initial adhesion strength Adhesion strength after heat ageing Adhesion strength after water immersion Adhesion strength after freeze-thaw cycles	1.6 N/mm ² 1.3 N/mm ² 1.4 N/mm ² 1.6 N/mm ²
Adhesion strength to water based impregnator (weberfix stone sealer S3)		> 1.5 N/mm ²
Shear Strength	ANSI A118.4	> 2.8 N/mm ²
Water impermeability pressure	GB 23445	> 0.8 MPa
VOC content	ASTM D3960	< 2g/KG
pH value	EN 12859	10 - 11

Unless specified, all technical data are average values and refer to 28 days curing time.

Above physical data are taken on laboratory tests. In situ material performance may vary according to environmental & workmanship conditions beyond manufacturer control.

Complied Standards

Chinese Standard	:	GB 24264 – 2009, GB 23445-2009
European Norm	:	EN 12004 : 2007, EN 12859
American Standard	:	ASTM D3960, ANSI A118.4

PROCEDURE

Substrate Preparations

The stone back must be clean, free from dust and other surface contaminations which affecting the adhesion of **weberfix stone back 456**. All dust and contaminants should be vacuumed clean prior to installation.

Mixing and Installation

Empty the latex admixture (10 L) into a bucket, pail or other suitable vessels.

Add the dry-mixed powder (30 KG) gradually to the admixture and stir gently using an electrical mixer with mixing time of 3 to 7 minutes to avoid lump formation until a smooth consistent mixture is achieved.

The blended mixture must be used within 2 hours, and pot must avoid direct sunshine.

Apply **weberfix stone back 456** evenly onto the stone back surface for 1 – 2 mm thickness.

The stone surface temperature should between 5 °C to 60°C for the application of **weberfix stone back 456**.

The product drying time under room temperature is 40 minutes.

Stone wet fixing product such as **weber** stone fix series products should be applied onto the **weberfix stone back 456** two days after.

Please refer to our method statement for procedures in details.

Curing

Natural air curing for **weberfix stone back 456** is enough under normal temperature.

STORAGE AND PACKING

weberfix stone back 456 is delivered in 30 kg bag of dry-mixed powder and 10 L drum of latex admixture. Storage life is 12 months if the product is kept in a dry place.

HEALTH AND SAFETY

Recommend to wear NIOSH approved or equivalent particulate face mask when mixing the material.

Material contains cement, which may produce an allergic effect.

Keep out of reach of children.

Material may cause irritation to eyes and skin. In case of contact with eyes, rinse immediately with plenty of water and seek medical assistance. After contact with skin, wash immediately with plenty of soap and water.

Please refer to Material Safety Data Sheet (MSDS) for health, safety and handling of the product.

* Note: The information and physical data in this catalogue is given to the best of our knowledge under standard testing method and controlled environment. The results may vary with different weather / site conditions, workmanship or substrates. This is beyond our control that we shall not be liable for any faults or consequences arising or associated with this. We suggest comprehensive tests to be conducted before final application. Unless specified, all technical data are average values with curing time of 28 days. We reserve the right to update or amend the contents in the light of new findings during the course of research and development.