

Schottlander System Stone New Formula

Instructions for Use

INTRODUCTION

Schottlander System Stone is a high strength stone type 4 in accordance with EN ISO 6873:2013. It is suitable for use with all die stone systems, being extremely detailed, possessing low setting expansion and being resistant to chipping.

INDICATIONS

This material is designed for the production of precision dies and master models especially as part of a die stone system.

CONTRA-INDICATIONS

None.

PROPORTIONS

The water to powder ratio is 24ml:100g (0.24 ratio by mass).

MIXING AND POURING

The optimum working temperature is when both powder and water are at 23°C. Lower temperatures thin and higher temperatures thicken this product. Use a bowl reserved exclusively for gypsum based products. Rinse bowl before use and shake out excess water.

When mixing manually add powder to water and let soak for 30 seconds, then mix vigorously for a further 60 seconds. When mixing mechanically add powder to water and mix by hand for 10-15 seconds to wet the powder and eliminate lumps. Then mix at a speed of 350-450rpm for a further 30 seconds. Longer mixing improves the surface hardness but decreases the working time. For best results mix under vacuum.

Pour the impression in the usual manner using light to medium vibration to improve the flow and eliminate bubbles. The flow into a silicone impression may be improved by the use of a wetting agent. Leave for at least 30 minutes after pouring before removing from the impression. With alginate impressions remove immediately after this time.

PHYSICAL DATA

(at a temperature of 23°C)

Pouring (working) time	6 - 7 minutes
Setting time	12 - 14 minutes
Setting expansion 2 hours	0.1%
Compressive Strength (Wet 1 Hr)	52MPa
(Dry 24 Hrs)	76MPa

STORAGE

Store in a cool dry place (10 - 23°C) and allow to reach room temperature (23°C) before use. Gypsum products are subject to deterioration when exposed to the atmosphere, particularly if the humidity is high. Re-seal container immediately after use. Discard material if setting time becomes extended.

Care: Bulk drums should be rolled before use.

HEALTH AND SAFETY

Warning: Product contains fine powder. Do not breathe dust. Inhalation of excessive dust over a prolonged period may result in lung damage. Keep working area clean and dust free and minimise dust generation.

For further information request Safety Data Sheet.

LOT NUMBERS

The lot number is shown on the outside of all containers.

This product is specifically formulated for use in dentistry.