BUILDING TRUST

PRODUCT DATA SHEET

Sika MonoTop®-620

CEMENTITIOUS SMOOTHING COAT/LEVELLING MORTAR &PORE SEALER

PRODUCT DESCRIPTION

Sika® MonoTop-620 is a one component cementitious polymer modified mortar.

USES

- As a concrete pore sealer/levelling mortar/smoothing coat
- Repairing minor defects
- Thin layer render
- Repairing pores and honeycombed concrete
- For exterior and interior use

CHARACTERISTICS / ADVANTAGES

PRODUCT INFORMATION

Chemical Base	Portland cement, polymer redispersable powder, selected aggregates and additives.
Packaging	25 KG
Appearance / Colour	Grey powder
Shelf Life	6 months from date of production
Storage Conditions	store properly in original unopened, sealed and undamaged packaging in dry and cool conditions.
Density	Mixed wet 2.0 kg/litre
Compressive Strength	28 days @ 20ºC ~ 30-35 N/mm2
Modulus of Elasticity in Compression	~ 15.4 kN/mm2
Tensile Strength	28 days @ 20ºC ~ 4-6 N/mm2
Tensile Adhesion Strength	~ 1.5-2.5 N/mm2 (substrate failure)
System Structure	▪ Sika® MonoTop-620 is part of the Sika® MonoTop Concrete Repair System ▪ Sika® MonoTop-610: Bonding primer and reinforcement coating ▪ Sika® MonoTop-612: Hand and wet spray applied repair mortar ▪ Sika® MonoTop-615: Hand and wet spray high build applied repair mortar ▪ Sika® MonoTop-620: Smoothing coat ▪ Sika® FerroGard®-903: Corrosion inhibitor

Mixing Ratio	▪ Wet Spray Application : 2.5 to 3.5 L of water for 25kg powder ▪ Hand Application: ~ 4.0 to 4.5 L of water for 25 kg powder
Consumption	This depends on the substrate roughness and thickness of layer applied. As a guide, ~ 2.0 kg/m2/mm.
Layer Thickness	1.5 mm min. / 5.0 mm max.
Ambient Air Temperature	+5°C min. / +30°C max.
Substrate Temperature	+5°C min. / +30°C max.

SUBSTRATE QUALITY / PRE-TREATMENT

The concrete shall be free from dust, loose material, surface contamination, existing renders, laitance coatings, oil and other materials which reduce bond or prevent suction or wetting of the smoothing coat. Delaminated, weak, damaged and deteriorated concrete should be repaired using MonoTop repair mortars. High spots can be removed by grinding.

Concrete surface should be cleaned and roughened using suitable abrasive blast cleaning techniques or high pressure waterblasting [up to 60 mPa (9000 psi)] techniques to achieve acceptable adhesion to the substrate. Adhesion test average must be >0.8 N/mm2 with no single value below 0.5 N/mm2 for crack bridging coatings and 1.0 N/mm2 with no single value below 0.7 N/mm2 for rigid coatings.

MIXING

Sika® MonoTop-620 can be mixed with a slow speed (< 500 rpm) electric drill mixer.

Pour the water in the correct proportion into a suitable mixing container. While stirring slowly, add the powder to the water. Mix thoroughly for at least 3 minutes to the required consistency.

APPLICATION

Smoothing Coat/Levelling Mortar
The surface should be pre-wetted to a saturated surface dry condition before application. Pre-fill surface defects before applying as a smoothing coat. Apply Sika® MonoTop-620 by spatula or trowel to the required thickness and finish. Where Sika® MonoTop-620 is to be overcoated, finishing with a moist neoprene sponge or brush after initial set has taken place is recommended to provide a key
for the coating. Do not overwork Sika® MonoTop-620 during or after applying. Should Sika® MonoTop-620 mortar be wetted during the initial cure period a white 'bloom' may be produced on the surface. This however, does not affect the long term properties of the mortar.

Pore filler:
Tightly trowel over surface and force into pores and other surface defects. Before overcoating remove excess material from surface while wet and wash down if necessary when dry to remove any dust deposits which may affect the bond of subsequent coatings.

CURING TREATMENT

It is essential to cure the repair mortar immediately after application for a minimum of 3 days to ensure full cement hydration and to minimise cracking. Use polythene sheeting taped down at the edges or other approved method. Curing compounds shall not be used if smoothing coat is to be overcoated.

CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Hardened/cured material can only be mechanically removed.

LIMITATIONS

- Avoid application in direct sun and/or strong wind and/or rain.
- Do not add water over recommended dosage.
- Apply only to sound, prepared substrates.
- Do not add additional water during the surface finishing as this will cause discoloration and cracking.
- Protect freshly applied material from freezing.

VALUE BASE

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

ECOLOGY, HEALTH AND SAFETY

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling. Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation

for more information.

LEGAL NOTES

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