

Range: Densifier/ Moisture Barrier



Description

Si20-D is a ready to apply, sodium silicate based densifier, hardener and dust proofer for concrete and cementitious substrates. Si20-D penetrates concrete and reacts to form a permanent Calcium Silicate Hydrate (CSH) structure within the pores. Treated surfaces are harder and stronger with a permanently reduced porosity reducing the movement of water and minimising efflorescence.

20 L Ready to use



Chemistry

Silicates

Function

Densifier, hardener and dust-proofer

Substrates

Concrete

Effects

Strengthens and dust proofs concrete, water beading

KEY ADVANTAGES

- Creates a permanent stronger, hardened structure
- Surfaces are dust proofed
- Reduces efflorescence
- Reduces water movement
- Reduces organic growth on surface
- Solvent and VOC free
- Environmentally friendly

TYPICAL DATA

- Appearance: Clear, colourless liquid
- pH: 11 – 12
- Solubility in water: Complete
- Specific Gravity: ~1.2 @ 20 degC
- Expected coverage: 3-5 m²/L on new and old concrete
- Shelf life: 1 year in unopen containers stored below 25 degC

CONCRETE PREPARATION

- The surface to be treated should be clean and free of all contaminants. Contaminants may require chemical or mechanical removal for Si20-D to penetrate the concrete pores and function effectively. Adequate porosity can be assessed by applying water droplets to the surface. If the droplets do not penetrate within 2 minutes then Si20-D may not function properly and may be ineffective.
- The surface can be damp or wet, however Si20-D should not be applied to a surface that has pools of water. The pools should be removed using a broom or cloth prior to application. Do not apply Si20-D if rain is expected within 24 hours of application. Do not apply if extreme weather conditions are expected. Do not apply if surface temperatures are above 30degC or below 5degC - warm surfaces should be misted to cool prior to application.
- Additional coats of Si20-D may be required (recoat time approx. 3-4 hours).
- New concrete must be properly cured before application of Si20-D.

APPLICATION

- Si20-D is ready to apply and should be mixed well before use.
- A test prior to application must be performed to assess the suitability of the product.
- Si20-D may be applied using a low-pressure hand sprayer then, if required, lightly worked into the surface using a broom or mop type applicator. Ensure even application over the entire surface to be treated. The surface should be impregnated to saturation point. Do not allow pooling of sealer. Pools can be spread out using a soft bristled broom. Excess product must be removed before drying to avoid the formation of any white residue. White residue can only be removed by mechanical means such as sanding or grinding.
- Si20-D is alkaline and may damage other surfaces. Any overspray or splashes on adjacent surfaces such as glass, metal or painted surfaces should be immediately wiped clean.
- Avoid traffic for at least 24 hours. Equipment clean up can be performed with water.
- Si20-D may darken some substrates.

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