

SL MORTAR PRODUCT DATA SHEET



PRODUCT & APPLICATION TOOLS



WORKPACK SIZE

4 gal (15.7 L) [33kg]

APPROXIMATE *COVERAGE

59 – 89 ft²
(5.5 – 8.3 m²)

DESCRIPTION

Impermitek's SL (Self-Leveling) Mortar is a trowel-applied, rapid setting, polymethyl methacrylate (PMMA) resin-mortar used as a traffic wearing layer applied over Impermitek's reinforced waterproofing systems or direct to structural concrete substrates.

The SL Mortar may also be used as a patch and repair material over approved substrates prior to application of Impermitek roofing and waterproofing systems.

ACCESSORY COMPONENTS

The SL Mortar is created by combining the SL Mortar Part A-Resin with the Part B-Filler. The SL Mortar also requires Impermitek Catalyst Powder for curing.

CODE	ITEM	PACK SIZE
122103-SC	SL Mortar Part A-Summer Resin	10 kg Can
122105-SC	SL Mortar Part A-Winter Resin	
122104-SC	SL Mortar Part B-Filler	23 kg Bag in Pail
102031-SC	Catalyst Powder (pail)	4.4 lb (2 kg)
102030	Catalyst Powder (box)	55 lb (25 kg)

FEATURES

- Fast curing: Within 30-60 minutes
- Hard wearing, U.V. & abrasion resistant
- Excellent chemical resistance
- Aggregate-filled formula for added durability in high traffic areas

STORAGE

Always store closed containers in a cool, ventilated and dry location away from heat and oxidizing agents. Do not store in direct sunlight or in temperatures at or below 32°F (0°C) or above 77°F (25°C). Approximate maximum shelf life is 12 months when properly stored, sealed, and unmixed.

WARNINGS

The application temperature is between 23° - 95°F (-5° - 35°C). The substrate temperature at application should be between 23° - 122°F (-5° - 50°C). Recommended minimum cure and maximum re-coat times should always be followed. When mortar is left exposed to the elements for longer than the recommended period, contaminated, or damaged, the mortar must be properly cleaned, addressed or repaired as necessary.

MIXING & APPLICATION

Before applying Impermitek's SL Mortar, ensure that substrates are prepared correctly in accordance with the relevant application recommendations.

Using a slow-speed (200 to 400 rpm) mechanical agitator, thoroughly mix the entire container of Part A-resin then slowly add the entire contents of Part B Filler to the resin and continue mixing for 2 – 5 minutes or until a uniform lump-free mortar mixture is achieved. Only catalyze the amount of material that can be used within 10-15 minutes. Add the premeasured catalyst to the mortar mixture and stir for 2 minutes or 4 minutes when temperatures are below 50°F (10°C). Refer to the catalyst information found on this PDS.

After mixing, apply catalyzed mortar to substrate at the required consumption using a v-notched trowel, steel rake, squeegee, or nub roller. Mortar should be uniformly spread across the substrate and finished with a pin roller to knock down any high spots and trapped air.

SAFETY & HANDLING

Please refer to the relevant Safety Data Sheet (SDS) prior to handling or use. Use materials in strict accordance with published recommendations. Dispose of waste materials in accordance with local, state and federal regulations.

SL MORTAR PRODUCT DATA SHEET



TECHNICAL ASSISTANCE

For further information, please contact Impermitek Technical Services at +1 (780) 906-4600 or technical@impermitek.com. More information can also be found at www.impermitek.com.

SUMMER FORMULATION APPLICATION QUICK FACTS⁴

Unit Size gal (L) [kg]	Unit Coverage ¹ ft ² (m ²)	Ambient Temperature ²	Substrate Temperature ²	Rain Proof & Pot Life ³	Next Layer Minimum ³	Next Layer Maximum ³
4 (15.7) [33]	59 - 89 (5.5 – 8.3)	37° - 95°F (3° - 35°C)	37° - 122°F (3° - 50°C)	30 (15) Minutes	60 Minutes	7 Days

WINTER FORMULATION APPLICATION QUICK FACTS⁴

Unit Size gal (L) [kg]	Unit Coverage ¹ ft ² (m ²)	Ambient Temperature ²	Substrate Temperature ²	Rain Proof & Pot Life ³	Next Layer Minimum ³	Next Layer Maximum ³
4 (15.7) [33]	59 - 89 (5.5 – 8.3)	23° - 77°F (-5° - 25°C)	23° - 86°F (-5° - 30°C)	45 (20) Minutes	75 Minutes	7 Days

***Notes:**

- Coverage is approximate and may be affected by surface-profile.
- Ensure all materials and substrates remain above at least 5°F (3°C) above dew point temperature with a maximum 90% relative humidity.
- Pot life, rain proof, working, and cure times are approximate and may vary depending on sun exposure, wind, humidity, as well as the ambience, substrate, and resin temperatures at the time of application.
- Figures shown are for one workpack of the Self-Leveling Mortar.

APPROXIMATE COVERAGE RATES BY VOLUME

Use/Application	gal/ft ² (L/ft ²)	ft ² /gal (ft ² /L)	gal/100ft ² (L/m ²)	Thickness (DFT) mils (mm)
Smooth (CSP 3)	0.046 (0.18)	21.5 (5.7)	4.6 (1.9)	75 (1.9)
Typical (CSP 4)	0.052 (0.20)	19.0 (5.0)	5.2 (2.1)	83 (2.1)
Rough (CSP 5)	0.070 (0.27)	14.2 (3.8)	7.0 (2.9)	114 (2.9)

APPROXIMATE COVERAGE RATES BY WEIGHT

Use/Application	kg/ft ² (kg/m ²)	ft ² /kg (m ² /kg)	kg/100ft ²	Thickness (DFT) ~mils (~mm)
Smooth (CSP 3)	0.37 (4.0)	2.7 (0.25)	37.1	75 (1.9)
Typical (CSP 4)	0.42 (4.5)	2.4 (0.22)	41.8	83 (2.1)
Rough (CSP 5)	0.56 (6.0)	1.8 (0.17)	55.9	114 (2.9)

SL MORTAR
PRODUCT DATA SHEET



PHYSICAL PROPERTIES		
Description	Property	Standard
Color	Pebble Grey	-
% Solids	100	ASTM D1644
Density* @ 73.4°F (23°C), lb/gal (g/ml)	15.1 (1.8)	ASTM D1475
Viscosity (cps) @ 77°F (25°C) & 60 RPM	77 (690)	ASTM D562 (Method A)
Shore A Hardness	91	ASTM D2240
Flash Point °F (°C)	35.6 (2)	ASTM D93
VOC g/L	< 50	EPA Method 24

**Note: Data represented above are average values unless noted otherwise.*

SUMMER FORMULATION CATALYST MIXING CHART				
Temperature Range (Substrate)	37 - 50°F (3 - 10°C)	50 - 68°F (10 - 20°C)	68 - 95°F (20 - 35°C)	95 - 122°F (35 - 50°C)
Catalyst Addition Rate	6%	4%	2%	1%

Amount of SL Mortar		CATALYST SCOOPS REQUIRED 20g (15ml) Per Scoop			
kg	gal (L)				
~2	~0.26 (1)	2	1.25	0.6	0.3
33	4 (15.15)	30	20	10	5

Amount of SL Mortar		CATALYST REQUIRED MEASURED IN KGs			
kg	gal (L)				
~2	~0.26 (1)	0.036	0.024	0.012	0.006
33	4 (15.15)	0.6	0.4	0.2	0.1

WINTER FORMULATION CATALYST MIXING CHART			
Temperature Range (Substrate)	37 - 50°F (3 - 10°C)	50 - 68°F (10 - 20°C)	68 - 86°F (20 - 30°C)
Catalyst Addition Rate	6%	4%	2%

Amount of SL Mortar		CATALYST SCOOPS REQUIRED 20g (15ml) Per Scoop		
kg	gal (L)			
~2	~0.26 (1)	2	1.25	0.6
33	4 (15.15)	30	20	10

SL MORTAR
PRODUCT DATA SHEET



Amount of SL Mortar		CATALYST REQUIRED MEASURED IN KGs		
kg	gal (L)			
~2	~0.26 (1)	0.036	0.024	0.006
33	4 (15.15)	0.6	0.4	0.2

IMPORTANT: *The temperature ranges and catalyst addition shown are to be used as a guide. Catalyst levels may be adjusted up or down as required to suit prevailing conditions but should NOT go below the minimum recommended catalyst addition rates. Tested pot life before starting application. In very hot conditions and particularly when performing detailing work, smaller batch mixes are recommended to allow sufficient application time.*

Please, refer to Impermitek installation recommendations, application manuals, and guide specifications, for complete information regarding the suitability, application, use, and handling of Impermitek products.