

This is an abbreviated guide and is not intended as a substitute for the Long Form ISOLATEK Types M-II & TG (Commercial) Application & Installation Manual. Applicator shall completely and fully read and understand the Long Form Application & Installation Manual prior to applying this product.

MIXER REQUIREMENTS:

Paddle or ribbon-type mortar mixer with safety cover and provision for quick dumping of mix. Mixers capable of operating speeds of 35 to 40 RPM, are required.

WATER REQUIREMENTS:

One bag of product requires 13 to 15 L (3.5 to 4.0 US Gal.) of potable water per bag. **A calibrated water meter is required** to ensure constant water volume per mix. *Note: The "five gallon bucket" method is unacceptable.*

MIX TIME:

Product is mixed by first adding potable water to the mixer and then product. Mix for three (3) minutes to achieve the target mixer slurry density. **In a multiple bag mix, the mix time begins after the last bag has been added to the mixer.**

Note: Adjustments to the workability of the mix can be made by slightly increasing the amount of water in the mixer. ISOLATEK Type TG must not be spray applied.

THICKNESS PER COAT:

Apply the ISOLATEK Type TG using conventional plasterer's tools.

For Single coat applications, apply 13 mm (1/2 in.) to 19 mm (3/4 in.).

For multiple coat applications, a first pass thickness of 13 mm (1/2 in.) will provide a good leveling layer for subsequent coats to build to final thickness. Apply 19 mm (3/4 in.) to 25 mm (1 in.) on subsequent passes.

In no case may the coating thickness be less than 13 mm (1/2 in.).

MULTIPLE COAT APPLICATIONS:

When applying multiple coats, allow the prior coat to "stiffen" before applying subsequent coats.

Where more than one coat is required, the preceding coat must be left with a texture or well scratched surface, to ensure good bonding of subsequent coats. 3mm deep x 3mm wide (1/8 in. deep x 1/8 in. wide) scratches in two directions at 25 mm (1 in.) apart are satisfactory.

It is optimal that subsequent coats, if required, be applied within 48 hours of application of preceding coat. **Note: If the surface of previously applied product becomes dry, it must be pre-wet with a mist of potable water before applying further coats.**

FINISHING APPLICATION:

Care must be taken to avoid excessive working of the product or "polishing" the finish. Light, even movements will yield best results. As a general rule, apply as great a thickness as practical to keep number of coats to a minimum.

Avoid the use of thin finish coats--once a first coat has provided a good key, continue to build further coat (coats) with the final coat at least 13mm (1/2 in.) thick. Avoid upward feathered edges.

THICKNESS PER COAT:

Apply 13 mm (1/2 in.) to 19 mm (3/4 in.) on the first pass and 19 mm (3/4 in.) to 25 mm (1 in.) on subsequent passes. In no case may the coating thickness be less than 13 mm (1/2 in.).

APPLICATION TEMPERATURE:

A minimum substrate and ambient temperature of 4°C (40°F) shall be maintained prior to, during and a minimum of 24 hours after the application.

SURFACE PREPARATION:

Ensure surfaces are clean and free of dirt, oil, grease, loose mill scale, paints/primers (other than those approved by Isolatek) and any other materials that may impair adhesion. **Note: Some substrates require the use of ISOLATEK® Type EBS (adhesive), ISOLATEK® Type PC, ISOLATEK® SBK-113, keycoat, and/or mechanical reinforcement. Primed or painted structural steel may adversely affect the bond of spray-applied fire resistive material. When primed or painted structural steel is specified, refer to the guidelines established by the testing laboratory or agency. Refer to the Long Form Application Manual for specific requirements.**

VENTILATION:

Provide a minimum of 4 complete air exchanges per hour until the material is dry.

SAFETY PRECAUTIONS:

ISOLATEK Type TG is slippery when mixed with water. Do not allow wet material to remain on scaffolds, ladder rungs or floors. Walking on wet material may result in slips or falls. Signage must be posted in areas where the application of ISOLATEK Type TG is ongoing to warn other trades of slip hazards.

CALCULATING MIXER DENSITIES:

1. Weigh an empty 1036cc cup and tare the scale to account for the cup weight.
2. Fill the cup with material from the mixer. Then gently tap the cup on a hard surface to eliminate all air pockets.
3. Level the material with top of cup.
4. Weigh the filled cup in grams.
5. Compare weight in grams to the mixer density in chart below.

ESTIMATING ISOLATEK TYPE MIXER DENSITY FROM WET CUP WEIGHTS

WET CUP WEIGHT (Grams)	MIXER DENSITY Using 14 L (3.75 US Gals) Water	
	PCF	(kg/m ³)
1013	61.0	(977)
1021	61.5	(985)
1029	62.0	(993)
1038	62.5	(1001)
1046	63.0	(1009)
1054	63.5	(1019)
1063	64.0	(1025)

Cup Size = 1036 cc

NOTE: Only the listed equipment, nozzles and procedures are approved for applying ISOLATEK Type TG. Deviations from these requirements will result in product not meeting claims as published in the literature. **For additional information, please contact the Technical Service Department.**