

Gypsum Solutions

Product Specification sheet

Product	Use/consistency	Vicat Set Time	%s set exp	Dry Density	Compressive strength
Lab Plaster	48-50cc/100gms	6-8 mins	0.020-0.021%	85-87 lbs/ft3	3700-4000 PSI
K-59 Pottery Plaster	70cc/100gms	22-25 mins	0.15%	69-71 lbs/ft3	2000-2200 PSI
K-5 Ultra Densite	26-18cc/100gms	11-15 mins	0.300-0.325%	99-101 lbs/ft3	7000-8000 PSI
K-5 Ultra Densite buff	26-18cc/100gms	11-15 mins	0.300-0.325%	99-101 lbs/ft3	7000-8000 PSI
Denscal ST	30cc/100gms	15-25 mins	0.200%	110 lbs/ft3	10,000-11,000 PSI

Lab Plaster: A fine grind, high purity, white plaster for lab use. For maximum strength Lab plaster should be mixed as thick as possible.

Mixing—Weigh the plaster accurately, using clean room temp water. Sift the plaster in to the water. Allow the plaster to wet out for 30 seconds before mixing, then mix at a 15-degree angle. Mix the plaster in, until the water is evenly disbursed consistently, The soak should be 30 seconds, and the mix 30 seconds. The plaster should be a uniform thick mortar consistency

Pottery Plaster: A fine grind, high purity, white plaster used in making molds for vitreous china, clay pottery, and other art ware and casting applications.

Mixing—Weigh the plaster accurately, using clean room temp water. Sift the plaster into the water. Allow the plaster to wet out for 30 seconds before mixing, then mix at a 15-degree angle. Mix until the slurry is creamy enough to avoid settling. Pouring should be at slow consistent rate and not splashed into your mould or pattern.

K-5 Ultra Densite: Gypsum cement (white / light buff / dark buff) this plaster provides low consistency with high natural strength.

Mixing—Weigh the plaster accurately, using clean room temp water. Sift the plaster into the water. Allow the plaster to wet out for 30 seconds before mixing, then mix at a 15-degree angle. Mix until the plaster has consistent mix, typically soak 30 seconds, mix 30-45 seconds.

Denscal ST: The strongest and hardest Denscal gypsum cement, recommended for applications that require smooth consistent surface hardness. Denscal ST is viscous pouring material that is excellent for solid patters, models and moulds.

Mixing—Weigh the plaster accurately, using clean room temperature water. Sift the plaster into the water. Allow the plaster to wet out for 30 seconds before mixing at a 15-degree angle. Mix until the plaster has a consistent uniform mix with uniform suspension. The plaster should be loose with just enough elasticity to form a drip from a dipped object.

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