

**TALLADIUM INCORPORATED**  
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**MIXING INSTRUCTIONS FOR STONES AND PLASTERS**

After disinfecting the impression, Talladium recommends rinsing it under running water then use a 2% Potassium Sulfate solution. For **optimal results** soak impression in Talladium's IMPRESSION CONDITIONER for 5 – 10 minutes, or more then blow off excess moisture and pour stone. This solution will work as a surfactant, removing saliva, blood and disinfectant residue, and gives an extra hardness to the die stone surface.

Place water into the bowl and add the powder. Hand mix for 15 seconds then follow the mixing directions given below.

**NOTE:** Talladium does not recommend the use of any debubbler on the impression – it may cause surface softening on the stone.

*\*Note: Talladium only recommends using distilled or filtered water to mix these stones as tap water may cause them to become soft.*

**PHYSICAL PROPERTIES**

**TUFF ROCK® - TYPE IV\***

Hand mix for 15 seconds then **mechanically spatulate for 30 seconds with vacuum.**

Consistency	21 cc water / 100 gm powder
Working Time	5 - 7 minutes
Setting Time	9 - 11 minutes
Setting Expansion	0.05 % non-hydroscopic
Compression Strength	20,450 PSI
Removal Time	30 - 60 minutes

**DIE MASTER® DIE STONE - TYPE IV**

Hand mix for 15 seconds then **mechanically spatulate for 30 seconds with vacuum.**

Consistency	22 cc water / 100 gm powder
Working Time	5 - 7 minutes
Setting Time	9 - 11 minutes
Setting Expansion	0.09 % @ 40 % humidity
Compression Strength	14,000 PSI
Removal Time	60 minutes

**PolyRez - TYPE IV**

Hand mix for 15 seconds then **mechanically spatulate for 30 seconds with vacuum.**

Consistency	20 cc water / 100 gm powder
Working Time	5 - 7 minutes
Setting Time	9 - 11 minutes
Setting Expansion	0.08 % non-hydroscopic
Compression Strength	16,000 PSI
Removal Time	30 - 60 minutes

**DIE MASTER® HX-V DIE STONE - TYPE V**

Hand mix for 15 seconds then **mechanically spatulate for 30 seconds with vacuum.**

Consistency	22 cc water / 100 gm powder
Working Time	5 - 7 minutes
Setting Time	9 - 11 minutes
Setting Expansion	0.20 % @ 40 % humidity
Compression Strength	16,000 PSI
Removal Time	60 minutes

**PolyRez HX-V - TYPE V**

Hand mix for 15 seconds then **mechanically spatulate for 30 seconds with vacuum.**

Consistency	20 cc water / 100 gm powder
Working Time	5 - 7 minutes
Setting Time	9 - 11 minutes
Setting Expansion	0.20 % non-hydroscopic
Compression Strength	16,000 PSI
Removal Time	30 - 60 minutes

**IMPLANT/SCANNING DIE STONE - TYPE IV\***

Hand mix for 15 seconds then **mechanically spatulate for 30 seconds with vacuum.**

Consistency	20 cc water / 100 gm powder
Working Time	5 - 7 minutes
Setting Time	9 - 11 minutes
Setting Expansion	0.02 % non-hydroscopic
Compression Strength	20,750 PSI
Removal Time	60 minutes

**DURA ROCK DIE STONE - TYPE IV**

Hand mix for 15 seconds then **mechanically spatulate for 30 seconds with vacuum.**

Consistency	20 cc water / 100 gm powder
Working Time	5 - 7 minutes
Setting Time	9 - 11 minutes
Setting Expansion	0.09 % @ 40 % humidity
Compression Strength	18,000 PSI
Removal Time	30 - 60 minutes

**ZIROC SCANNING DIE STONE - TYPE IV**

Hand mix for 15 seconds then **mechanically spatulate for 30 seconds with vacuum.**

Consistency	20 cc water / 100 gm powder
Working Time	5 - 7 minutes
Setting Time	9 - 11 minutes
Setting Expansion	0.09 % @ 40 % humidity
Compression Strength	18,000 PSI
Removal Time	30 - 60 minutes

**DURA ROCK FAST SET DIE STONE - TYPE IV**

Hand mix for 15 seconds then **mechanically spatulate for 30 seconds with vacuum.**

Consistency	20 cc water / 100 gm powder
Working Time	3 - 5 minutes
Setting Time	5 - 7 minutes
Setting Expansion	0.09 % @ 40 % humidity
Compression Strength	18,000 PSI
Removal Time	30 - 60 minutes

**EVENFLOW – TYPE IV**

Hand mix for 15 seconds then **mechanically spatulate for 30 seconds with vacuum.**

Consistency	22 cc water / 100 gm powder
Working Time	5 – 6 minutes
Setting Time	9 - 10 minutes
Setting Expansion	0.00 % (effective 0.00% on Die Stone)
Compression Strength	11,000 PSI
Removal Time	30 minutes

**EVENFLOW FAST SET – TYPE IV**

Hand mix for 15 seconds then **mechanically spatulate for 30 seconds with vacuum.**

Consistency	22 cc water / 100 gm powder
Working Time	3 – 5 minutes
Setting Time	5 - 7 minutes
Setting Expansion	0.00 % (effective 0.00% on Die Stone)
Compression Strength	11,000 PSI
Removal Time	30 minutes

**PINNING BASE STONE (ZERO BALANCE) - TYPE IV**

Hand mix for 15 seconds then **mechanically spatulate for 30 seconds with vacuum.**

Consistency	22 - 23 cc water / 100 gm powder
Working Time	5 - 7 minutes
Setting Time	9 - 11 minutes
Setting Expansion	0.00 % (effective 0.00% on Die Stone)
Compression Strength	11,000 PSI
Removal Time	30 minutes

**REGULAR SET LABORATORY PLASTER - TYPE II**

Hand mix for 15 seconds

Consistency	45 cc water / 100 gm powder
Working Time	6 – 8 minutes
Setting Time	10 - 12 minutes
Setting Expansion	0.18 %
Compression Strength	2,000 PSI

**FAST SET LABORATORY PLASTER – TYPE II**

Hand mix for 15 seconds

Consistency	45 cc water / 100 gm powder
Working Time	2 – 3 minutes
Setting Time	4 - 6 minutes
Setting Expansion	0.18 %
Compression Strength	2,000 PSI

**MOUNTING STONE**

Hand mix for 15 seconds

Consistency	22 cc water / 100 gm powder
Working Time	3 – 4 minutes
Setting Time	5 minutes
Setting Expansion	0.08 %
Compression Strength	8,500 PSI

**ORTHO PLASTER - TYPE II**

Hand mix for 15 seconds then **mechanically spatulate for 30 seconds with vacuum.**

Consistency	37 cc water / 100 gm powder
Working Time	6 – 8 minutes
Setting Time	10 - 12 minutes
Setting Expansion	0.12 %
Compression Strength	2,000 PSI

**ORTHO STONE - TYPE III**

Hand mix for 15 seconds then **mechanically spatulate for 30 seconds with vacuum.**

Consistency	24 cc water / 100 gm powder
Working Time	5 – 7 minutes
Setting Time	9 - 11 minutes
Setting Expansion	0.09 %
Compression Strength	8,500 PSI
Removal Time	60 minutes

**LAB STONE - TYPE III**

Hand mix for 15 seconds then **mechanically spatulate for 30 seconds with vacuum.**

Consistency	28 cc water / 100 gm powder
Working Time	3 – 5 minutes
Setting Time	8 - 9 minutes
Setting Expansion	0.10 %
Compression Strength	10,000 PSI

**FLASKING STONE - TYPE IV**

Hand mix for 15 seconds

Consistency	26 - 28 cc water / 100 gm powder
Working Time	5 – 7 minutes
Setting Time	9 - 11 minutes
Setting Expansion	0.07 % non-hydroscopic
Compression Strength	10,000 PSI