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Bronze Powder

Bronze Powder is added to urethane resins to create metallic finish sculptures or castings. The method is known as “Cold Casting,” where the bronze powder is blended with urethane resin and poured into a silicone mold. Once the part has cured, it is removed and the surface is polished to the desired finish, and then sealed to prevent oxidation. This technique is faster and more cost effective for producing metal parts than traditional methods of foundry casting like lost wax casting.

How to use: You will want to blend up to 300% Bronze Powder with the total weight of the urethane resin. Once you have measured Part A and Part B of the urethane resin into separate containers find the total weight less the containers in grams. If you have 200 grams of urethane, you will want to use 600 grams of bronze powder. Add the bronze powder to Part B and thoroughly mix before adding Part A. Pour into silicone mold. You can color the urethane resin black or brown to prevent knicks or scratches from showing up as easily.

Solid casting (filling the entire mold cavity with bronze/urethane mixture) is the easiest if you have a small part but for larger size parts, slush casting (rotating the mold until it sets up and then filling the hollow cavity with unfilled resin to reinforce and strengthen the part) works better. If you decide to slush cast, additional weight can be added to the backfill resin to simulate the weight of real bronze. Lead, porcelain powder, or milled fibers can be added to achieve this effect. Allow part to fully cure before demolding.

Note: Adding bronze powder will slow the urethane resin gel and cure times, especially in thin cross section areas. Allow extra time to demold part to prevent warping.

To finish the part, use fine steel wool or a Scotch Brite pad to hand abrade the surface to bring out the desired level of gloss and sheen. Once the bronze surface is exposed, move to finer grits of steel wool from 0 to 0000. Care should be taken not to abrade past the bronze surface. For a high polish, use a plastic rouge and buffing wheel. Once desired finish is achieved and to prevent oxidation, apply a high gloss clear coat with Krylon Fusion Spray Paint.

Storage: Properly store the bronze powder in an airtight, sealed container to avoid moisture contamination.

ALWAYS WEAR PROPER SAFETY EQUIPMENT WHEN WORKING WITH PARTICULATES.

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