GENERAL INFORMATION

Shimrin® MBC MetaJuls™ Metallic Bases are our most brilliant metallic basecoats that feature exceptional sparkle and brightness. MetaJuls™ are available in four unique colors and three flake particle sizes. Pale Gold, Platinum, and Black Diamond are excellent choices for Kandy finishes, while the Prism Effect produces an amazing rainbow effect. When used as a basecoat, MBC01 creates bright dazzling Kandy colors, while MBC03 can create dark rich Kandy colors. MBC02 is a medium color used to slightly darken Kandy colors. At times, Kandy with exceptional sparkle in sunlight. They may also be used for a final finish. Due to their unique chemistry make-up, they may be top coated with either acrylic lacquer or urethane enamel. Once a system is chosen (acrylic lacquer or urethane enamel) use only products within that system. Intermixing of these two systems, after the base coat, is not recommended. For example, if Shimrin Base is top coated with an acrylic lacquer Kandy, it must also be cleaned with an acrylic lacquer clear.

When ordering MBC MetaJuls Metallic Bases, please use the following codes to specify the particle size and color:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBC01</td>
<td>Standard Pale Gold</td>
</tr>
<tr>
<td>MBC02</td>
<td>Standard Platinum</td>
</tr>
<tr>
<td>MBC03</td>
<td>Standard Black Diamond</td>
</tr>
<tr>
<td>MBC04</td>
<td>Prism Effect (Note: Prism Effect is lost when applied under kandies, but a unique halo effect is created that adds an illusion of depth)</td>
</tr>
</tbody>
</table>

1. SUBSTRATE

- KQ-Seal® II
- All Shimrin® Bases
- SG100 Intercal Clear (artwork only)
- Properly cured top coat cleans and CEM finishes (artwork only)

2. PREPARATION

Read "TECH PREP" thoroughly before you begin painting. Please be aware that Shimrin® bases can be susceptible to staining or bleeding from plastic fillers, putties, fiberglass resin and some primers. To prevent staining, strip bare (or to OEM primer) and prime with our K925F Chromate Free Kwikuire Epoxy Primer or our K02000 Direct to Metal Epoxy Primer. See tech sheets for more information on KP & KD primers.

3. GROUND COAT

- Sealer (KQ-Seal® II)
- BC, BFC Shimrin® base coat

MBC's must have a proper Base to achieve their maximum effect. Our KQ-Seal® III's work extremely well as a base.

A: MBC01 Pale Gold will work over KS12 or KS212 Silver Sealer; however, for the perfect base sealer. To 24 oz. of mixed KS12 add 1 oz. of KY14 Spanish Gold Konzentrate, also a mix of BC01 and BC02 will match the MBC01 for an excellent base.

B: MBC02 Platinum works over KS12 or KS212 but closer match the Platinum, add some KS211 or KS11 Black Sealer. For a beautiful darker Kandy apply 3 coats of MBC02 over KS11 or BC25. Try this, apply KS12 or KS121, let dry one hour. Apply 1-2 coats KS100, let dry 30 minutes (or until dry). Then do art speckles, turqouise or blend over sealer base using 1-2 medium coats of BC25 Black or any contrasting base color. Now apply 3 coats of MBC02 over both base colors. Allow dry time, lighty wipe with a white or grey scuff pad, air and back. Then apply the Kandy color of your choice: way kool!

C: MBC03 Black Diamond, simply apply 3 coats over KS11 or KS11 Black Sealer, or BC25 Black will work also. Many other darker base colors also add creativity; try BC10 Pavo Purple as a base under MBC03 and follow with Kandy or simply clear.

NOTE: Sealer is not a cure-all for poor preparation and does not prevent discoloration or bleeding. The main purpose of the sealer is to increase adhesion of topcoats, to make the object one color (nearest to the base for faster coverage), and to improve color holdout and gloss retention.

4. SANDING THE SUBSTRATE

- Refer to tech data sheet on KQ-Seal® II and SG100.

5. COMPONENTS

- MBC MetaJuls™ base coat
- RU510 Slow, RU511 (medium) urethane reducer
- Air Brush application: RU511 (medium), RU512 (slow)

6. MIXING MBC BASES (MBC METAJULS™)

- 2 parts MBC MetaJuls™ base coat
- 1 part RU series reducer
- Air Brush application: 1 part MBC, 1 part RU-reducer

Stir Shimrin Base well. Reduce 50% (2 parts paint to 1 part reducer). Mix well and reduce only with RU510 or RU511 reducer, based on booth temperature. IMPORTANT NOTE: No catalyst is used in Shimrin bases. REDUCE ONLY WITH OUR KOSMIC REDUCERS. Use the reducer best suited to your shop temperature. See tech sheet for more information on RU reducers. Note: For Air Brush application reduce 100% (1 part paint to 1 part RU17 reducer). When blending, you may slightly over-reduce Shimrin Bases or mix them with SG100 Intercal Clear for understandable blends.

NOTE: Splitting or cracking is possible when using other companies’ reducers or by using a reducer that is too slow for your shop conditions.

7. GUN SET UP

- Conventional Gun = 45 to 55 PSI
- HVLP Gun = 10 PSI at the cap

(Refer to spray gun manufacturer’s recommendations)

- Needle/Nozzle:
  - Fine & Medium MetaJuls™ = 1.3 to 1.5 (Depending on the size of object being painted)
  - Coarse MetaJuls™ = 1.6 to 1.8 (Depending on the size of object being painted)

- Trigger Pull = 50% to 75%
- Air Brush. Follow gun manufacturer’s recommendations

8. APPLYING SHIMRIN® BASES (MBC METAJULS™)

After reducing, strain the paint into the paint gun. Use a coarse strainer or none at all. Strainers are not used with larger fake. Gun distance while spraying should be approximately 4-6 inches, depending on gun used and gun adjustments. Apply 2 MEDIUM coats with 75% pattern overlap. Work long objects. Avoid dry spraying, as loss of adhesion is possible. Again, MEDIUM coats work best. Allow flash time between coats.

SHIMRIN® FLASH TEST - ALL SHIMRIN® BASES WILL DRY DULL AND SHOULD FEEL DRY TO THE TOUCH BEFORE THE NEXT COAT IS APPLIED. Monitor closely for maximum merging of coats.

NOTE: DO NOT APPLY HEAVY WET COATS OF MBC BASES AND EXPECT THEM TO FLOW. They behave very much like lacquer, so apply medium coats only and avoid heavy build. Do not dry spray or lack of adhesion is possible. Apply medium coats, 75% pattern overlap. Flash dull between coats.

NOTE: Spitting and cracking may occur when painting too fast without allowing proper dry time or by spraying on the base too wet and heavy.

NOTE: 3 coats of Shimrin® MBC Bases equals 1/2 to 3/4 ml, leaving a minimal edge. (Tape pulls away leaving a clean, low edge.) Also true of Shimrin®s. This is the easiest fume to use ever.
9. DRY TIME
Allow dry time before Kandy or clear is applied (usually about 15 to 60 minutes and not longer than 4 hours). Topcoat within 4 hours or apply SG100 Intercat Clear (see step 10).

**SHIMRR® FLASH TEST**: ALL SHIMRR® BASES WILL DRY PULL AND SHOULD FEEL DRY TO THE TOUCH BEFORE THE NEXT COAT IS APPLIED. Monitor closely for maximum merging of coats.

10. ARTWORK & INTERCOAT CLEAR (optional)
Shimrr® Bases, with their low solids, are an excellent choice for artwork paint jobs. DO NOT TAPE DIRECTLY ONTO THIS SHIMRR® BASECOCAT. If artwork is planned, allow to dry, lightly wipe with a white or grey scuff pad to knock down standing flakes while blowing with air. (Except MBC04 Prism Effect, where flake particles could be damaged). Apply 1 or 2 medium coats of SG100 Intercat Clear (for urethane enamel topcoats) or SC01 Sunscreen Clear (for acrylic lacquer topcoats). The clear coat will protect the Shimrr® Base from tape marks and allow cleanup of mistakes. **NOTE: DO NOT SAND SHIMRR® METALLIC BASES DIRECTLY. Apply SG100 Intercat Clear for base coat protection if sanding is required**. If you already sand the Shimrr® metallic, you may put permanent scratches in the flake, a white or grey scuff pad will do no harm if wiped lightly. Wet or dry. **NOTE: SG100 Intercat Clear is designed to protect the base coats for artwork tape-outs and blends only. DO NOT USE SG100 AS A BUILD-UP OR TOPCOAT CLEAR. AS IT IS NOT WEATHER RESISTANT OR DESIGNED TO EXCEED 4 COATS.**

**CAUTION: Shimrr® Base coats do not have any chemical resistance until cleared. Final wash solvents will remove base coats. Use KC20 Post Sanding Cleaner for cleanup. As always, avoid touching finish with bare skin which may transfer oil.**

11. KANDY COAT (optional)
Shimrr® MBC MetaJuls™ Bases may be Candi'd with either acrylic lacquer or urethane enamel. Remember if you Kandy with acrylic lacquer, you must also clear with acrylic lacquer. (If you Kandy with urethane enamel, you must also clear with urethane enamel). See appropriate tech sheets for Kandy application.

This step produces awesome Kandy jobs. When viewed in the sunlight, the sparkle of these very unique metallics is outstanding. For artwork, our Kandy Koncentrates may be mixed with SG100 Intercat Clear for Kandy graphics. See KK & SG100 tech sheets for more information.

12. CLEAR COAT
ALL SHIMRR® MBC METAJULS™ BASES MUST BE CLEAR-COADED (with either urethane enamel or acrylic lacquer). Once a system is chosen, after the base coat, stay with that system. We recommend that you use House of Kolor® clears for best results. See appropriate tech sheets for more information on clear coat application.

### ADDITIONAL INFORMATION
Shimrr® MBC MetaJuls™ Bases may be intermixed for hundreds of color combinations. MBC Bases may also be mixed with other Shimrr®s, including the Designer Pearls, Neons, Graphic Color, and Kandy Koncentrates. The possibilities are endless. Create your own one-of-a-kind custom finish.

13. CLEAN UP
Clean equipment thoroughly with lacquer thinner or urethane reducer (check local regulations).