1) When a new mold has been fabricated, or during production, insert the Prescale between the PL surfaces and measure the pressure distribution. (Application 1)

2) To check the impact of platen bending, insert Prescale between the platen and the mold and measure the pressure distribution. (Application 2)

Product used: Prescale (LW, MS, HS)

1) Since molds are composed of multiple parts, dimensional errors of each part tend to accumulate in the thickness direction. This means that the precision of the height of each part of the PL surface can deviate significantly from its intended value, resulting in excessive contact pressure, the failure of parts to make necessary contact, or the generation of burrs.

2) When force is applied to clamp a mold, the platen tends to bend, which in turn causes the mold to bend. As a result, the thickness precision of the molded product deteriorates, leading to uneven wear and shortened mold life.

Application 1
Checking mold PL surface contact
Insert the Prescale between PL surfaces and clamp the mold. The Prescale must be cut to fit the shape of the PL surfaces. The pressure can be visualized in accordance with the density distribution of the color-developed Prescale. The following checks can be made:
- Check that PL surfaces are even
- Check that contact is not one-sided
- Find the points where contact is stronger than intended
- Check that there is no risk of burr formation, due to failure of contact where contact is necessary

Application 2
Checking contact between mold and fixed side platen (movable side platen)
Insert Prescale between the mold and fixed side platen (movable side platen) and clamp the mold. The Prescale must be cut to fit the shape of the locating ring and screw holes. The pressure can be visualized by the density distribution of the color-developed Prescale, thereby making it possible to assess the degree of distortion of the molding machine when the mold is clamped.
Benefits of Prescale

1. When fabricating new molds, it is possible to produce ideal molds with even contact over PL surfaces.
2. Thickness precision and prevention of burring is improved, resulting in finished products of higher quality.
3. Effective mold life is lengthened.
4. The degree of platen bending and contact with mold can be easily checked.

**Without using Prescale**

Since PL surface contact cannot be checked or adjusted, burring of finished products occurs easily, and thickness precision is limited. In addition, mold life tends to be relatively short.

**With Prescale**

The ability to check contact using Prescale and thereby adjust PL surfaces makes it possible to determine the causes of defects in finished products, and to increase mold life. Prescale also makes it easy to check the degree of platen bending and contact with the mold.

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*Note that the specifications and performance data described in this catalog are subject to change without notice for the purpose of improvement. Since images are used for illustration purposes, they may differ slightly from the actual product.*