

Technical Data Sheet

Solutions for Decoration

83 2063 - Covercoat - tack-free

Application	<p>Due to its good combustibility and depolymerization, 80 2063 can be used for decorations on porcelain and ceramics.</p> <p>Particular emphasis is to be given to the tack-free surface of this covercoat after drying.</p> <p>80 2063 is thus used as a "tack-free" covercoat for decors that have not been printed with pastes which have high medium contents. 80 2063 can also be used for the heat-release process as a result of its good blocking stability.</p>
Printing Properties	<p>High printing speeds can be achieved with 80 2063, without any cobwebbing or blistering, due to the well-balanced solvent composition.</p> <p>As 80 2063 is a flowing covercoat, however, care must be taken when using dryers with a continuous flow of air to avoid the formation of beads caused by too thick a print, or a horizontal pre-drying zone must be used before running through the dryer.</p>
Film characteristics	<p>After the solvents have evaporated, 80 2063 produces an easy-to-handle, flexible film. After drying, the surface is silk-matt and virtually tack-free.</p> <p>If the printing inks have not been printed on top of one another several times and too thickly, interlaying wax paper can be dispensed with if the ceramic decals are stored in a vertical position. As the surface tackiness depends to a large extent on the plasticizer content of the printing inks, it is absolutely necessary to test the blocking stability at the highest temperatures expected in the environment where the ceramic decals are to be processed. The test for establishing the blocking stability is described in detail in Part B under B 1/5.</p> <p>The recommended minimum dry film thickness should be some 23 µm.</p>
Application errors	<p>If the recommended processing temperature of 20-25 °C is not observed, i.e. the temperature is lower, cobwebbing may occur when printing, the film thickness may be insufficient and there may be pinholes in the dry film due to poor levelling properties.</p> <p>Tack- (block) free covercoats are less flexible than regular products. As all decals lose flexibility during storage, this should be accounted for as an additional parameter, in order to supply decals with the desired flexibility for use. Raised application temperature as well as plasticizing additives or a combination of the two helps to apply rigid decals properly.</p>
Storage	<p>80 2063 soll trocken und bei Raumtemperatur (15-25°C) gelagert werden. Anbruchgebände stets sorgfältig verschließen, da sich durch Verdunstung der Lösemittel aus offenen Behältern die Zusammensetzung des Produktes ändert.</p> <p>When this storage recommendation is observed, the minimum shelf life in unopened original drums is 2 years.</p>
Environment	<p>Waste material treatment, environmental health and safety protection has to follow the local regulations and legislation.</p>

Field of application	glass, porcelain, ceramics
Processing	with automatic and semi-automatic screen printing equipment
Appearance	clear or colored, transparent liquid
Composition	polyacrylates; plasticizer; solvents
Viscosity at 23°C [mPa*s]	1600 at 50 1/s ; 1550 at 200 1/s
Degree of thixotropy	keiner
Consistency	flowing
Density at 20°C [g/cm³]	0,95
Non-Volatile parts (nvp) [%]	38
Flash point according ISO 3680 [°C]	+47
Recommended screen material	PET: 24-120 to 24-120 or corresponding steel mesh
Blocking stability	tack-free
Minimum dry film thickness [µm]	23
Drying figures TZ according to Mettler	TZ 10: 50 ; TZ 100: 650
Recommended working temp. [°C]	20 - 25
Recommended rel. humidity [%]	55 - 60
Thinner	--
Cleaner	80 452

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