UV Putty

Technical Data Sheet

Item no.	Product description
881-1	UV Putty 500 ml

UV Putty is a high-quality, UV-curing fine putty designed for fast and efficient filling of small surface damages. It can be sanded after approximately **5 minutes of irradiation** using a UV LED lamp or a mercury vapour (Hg) lamp.

By eliminating the need for heat curing, significant energy savings can be achieved. At the same time, repair cycle times are reduced, as the painting process is not interrupted by heating or cooling phases.
UV Putty is a **1K system**, ready for use. No hardener is required, and there is no material waste caused by limited pot life. Substrates do not need to be heated, which protects temperature-sensitive materials—especially plastics—from deformation or overheating. No cooling phase is required prior to sanding.
After curing, UV Putty provides a very hard surface with excellent sanding properties and outstanding mechanical and chemical resistance.

The product is particularly suitable for **small automotive damage repairs** and **spot repairs**, applied as a fine putty with a **maximum dry film thickness of approx. 1500 µm**.

UV Putty shows very good adhesion to:

- Steel
- Iron
- Aluminium
- Galvanised substrates
- GRP
- Wood

Direct adhesion is also achieved on the following plastics:

- ABS
- PVC
- PC

Product Data

- **Colour:** Grey-greenish transparent
- **System:** 1K, ready to use
- **Mixing Ratio:** Not applicable
- **Hardener:** Not required
- **Pot Life:** Unlimited when stored in a lightproof container
- **Thinner:** Not required
- **Flash-off Time:** No flash-off required prior to UV curing
- **Maximum Dry Film Thickness:** 1500 µm

Drying / Curing

- **UV LED Lamp:** approx. 5 minutes
- **Hg (Mercury Vapour) Lamp:** approx. 5 minutes
- **Sunlight curing:** Not permitted

The maximum dry film thickness of **1500 µm must not be exceeded**, otherwise through-curing problems may occur.

Extremely powerful lamps may shorten curing time but can cause coating defects such as wrinkling, cracking, or adhesion failure. Always observe the specified curing times.

Recommended lamp distance: **20–30 cm**.

Storage & Processing Conditions

- **Shelf life:** Minimum 2 years at approx. 20 °C in unopened original container
- Close container immediately after use and protect from direct sunlight
- **Processing temperature:** From +15 °C
- **Relative humidity:** Max. 80%
- Ensure adequate ventilation

VOC Content:
EU limit (Category B/b): 250 g/l
Product contains max. **3 g/l VOC**

Substrate Preparation

The substrate must be clean, dry, and free from grease.

- Lightly sand the surface
- Degrease thoroughly with a suitable silicone remover
- Remove non-adhering old coatings and primers
- Do **not** apply on thermoplastic or acidic products (e.g. wash primers)

Recommended sanding:

- Aluminium / galvanised steel: P220
- Steel: P120

Plastics Preparation

- Pre-heat parts for **60 minutes at 60 °C**
- Degrease thoroughly with a plastic cleaner or silicone remover
- Sand with super-fine soft pad
- Clean again and allow to dry completely

Mould release agents must be fully removed. A water wetting test is recommended.

Application

Apply UV Putty up to a **maximum dry film thickness of 1500 µm**.
No intermediate flash-off time is required before UV curing.
After application, cure for **5 minutes under UV light**.

Sanding

- Initial sanding: P150 / P240 (dry)
- Finish sanding: P240 / P360 to a uniform matt finish

On non-ferrous metals, an epoxy primer may be applied beforehand to improve adhesion.
Always isolate the surface with a suitable 1K or 2K filler before overcoating.

UV Putty must be **dry sanded only**.