

## «Storage and supply of coated components»

A guide by IGP Pulvertechnik AG on how to handle coated components.

Components that are painted carefully and professionally in the coating process need to be handled accordingly even after surface treatment.

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A DOLD GROUP Company

Coating and metal construction plants have the task of ensuring that coated surfaces are protected against harmful influences during transit, storage and installation:

1. Exposure to mechanical stresses and strains (dents, scratches, chafe marks)
2. Exposure to moisture (water marks, trapped moisture, traces of condensation)
3. Exposure to dirt and alkalis (soiling, building dust, mortar)

### Transport packaging

#### Spacers

Spacers or distance blocks made from metal, wood, paper or rigid foams such as polystyrene are not suitable (humic acids, moisture absorption, moisture release, abrasive surfaces).

The following are suitable as spacers:

extruded, closed-cell, flexible foams without plasticizers.

Example: spacer pads "Caro Point" tested up to 40 °C or 4mm PE foam film tested up to 60 °C dry heat.

Important: wet spacer pads lead to water marks.

#### Separating layers

Separating layers made from paper, plastic fibres or bubble wrap are not suitable. The latter can leave an impression if subjected to high surface pressure.

The following are suitable as separating layers: PP/PE fleeces with non-suction properties such as PP fleece 2mm and air bubble film as outer packaging.

#### Protective films

Protective films may only be removed after completing the installation – prior to component acceptance test or at the instructions of the construction management. Highly adhesive protective films are not suitable.

Removable self-adhesive films with UV protection are suitable.

Recommended adhesive films:

- Tesa 50560
- Tesa 4438 ([www.tesa.ch](http://www.tesa.ch))
- 3M Tape 3903i ([www.3m.com](http://www.3m.com))
- ROLLFIX 568-100 / 564-65
- ROLLFIX 562-55 (only for very glossy powder coatings)

**Conspicuous info stickers (example text):** Protect the components against moisture and vapour diffusion inside the film packaging during transit and when in storage at the construction site.

### Storage and covering

#### Palletizing

- Adequately dimensioned pallet and storage areas with free safety border
- Component ends and edges are to be protected
- Store palletized goods at a slight angle so that any water can escape

#### Coverings

- Opened packaging units are to be fully installed or, after removing individual components, resealed so as to be watertight, or they must be covered up with tarpaulins so that no moisture can get in behind.
- Standing water is also to be avoided on coated surfaces.
- Build-up of moisture as a result of using unsuitable spacers is also to be avoided.
- Coverings and film coatings on all sides must permit vapour pressure equalisation (risk of condensation and micro-climate formation).
- The insertion of desiccants or silica gels is also suitable. Example: Desiccant bags (Dry&Save)

#### Storage areas

- Dry storage areas as well as storage under airventilated shelters (reduced formation of condensation) are suitable.

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### Handling

#### Avoiding chafe marks

Profiles or sheet metal plates are to be lifted off the full area of the storage unit and not pulled off!

#### Scaffolds and tarpaulins

These must not be in direct contact with coated surfaces (risk of chafing).

### Soiling

Alkaline construction dust and mortar must be removed carefully within a few hours (risk of changes to gloss level, colour and surface finish).

In the event of soiling, never clean using a dry cloth, but instead use plenty of water and a soft, damp sponge.

### Quality assurance

Please heed the standards of the Central Swiss authority for facade and window construction (SZFF):

- SZFF 41.07: Guideline for coating facade components made from aluminium and steel
- SZFF 61.01: Guideline for maintaining and cleaning metal facades