# Technical Data Sheet

## *Product Description*

## FM E-PVC 72

**E72** is a fine-particle emulsion homopolymer for making PVC pastes. Plastisols based on E72 are distinguished by a low initial viscosity and almost newtonian flow properties. Principal applications are pastes for compact vinyl wallcoverings, flooring and leathercloth, as well as for coating of woven and non-woven fabrics and of glass strands. On account of its favourable rheology at high shear rates, pastes made from E72 can be processed with all the usual coating methods, particularly with reverse roll coaters. The following properties make E72 particularly suited to the manufacture of low plasticizer and/or highly filled pastes: very low initial viscosity, almost linear flow properties, excellent release effect during contact fusion and a high suitability for mechanically blown foam containing silicone based foaming aids. The low initial viscosity of E72, coupled with its almost linear flow characteristics, allows the production of very thin coatings (< 100 mm), even at high coating speeds on reverse roll coaters and rotary screen printers. The initial viscosity may be reduced further and eventually appearing dilatancy can eliminated through combinations with extender resins. The high filler-loading capability allows the formulation of particularly cost effective pastes. Pastes based on E72 are used for base coating of CV-flooring, leading to a smooth surface with no tendency to form plate out on the pre-gelling cylinder.

| ***Characteristic*** | ***Typical Value*** | ***Unit*** | ***Test Method*** |
|---|---|---|---|
| *K-Value* | 71-73 | - | ISO 1628/2 |
| *Sieve Analysis > 63 µm* | ≤1.5 | % | ISO 565 |
| *Volatile Matter* | ≤0.3 | Wt% | ISO 1269 |
| *Methanol extract* | ≤2.5 | Wt% | ISO 6427 |
| *Residual VCM* | ≤1 | ppm | ISO 6401 |
| *Thermostability, Mathiss drying oven* | >20 | min | - |
| *Paste viscosity After 1h* | ≤5 | Pas | ISO 11468<br>ISO 3219 |
| *Part of Quality* | ≥98 | % | - |

Notes: Values shown are averages and are not to be considered as product specification. These values may shift slightly as additional data is accumulated. - ISO test methods are the latest under the society's current procedures.

## Production

The monomer feedstocks used in production are registered with REACH, the polymers are exempted from REACH registration according to REACH article 2 (9.).

## Handling, Health & Safety

Ensure proper ventilation of the work environment to minimize health and safety hazards from fine particles. Ensure machinery and equipment is properly grounded to prevent sparks that can ignite dust. Molten polymers will cause thermal injuries to organic matter please ensure safety glasses and appropriate safety apparel is worn.

## Packing & Storage Conditions

The product is supplied in 25 kg bags on 1375 kg pallets or 1100 kg big bags. For certain destinations dry bulk deliveries are possible using a Dry Bulk Liner for 20ft and 40ft containers. The material should be stored dry and away from direct or indirect sources of heat. Please consult the safety data sheet for information about the safety precautions necessary for transport, storage, blending and processing.

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