PATADD DA786 is a balanced liquid mixture of anionic and non-ionic surface active compounds which provides anti-settling and anti-sag properties.

PATADD DA786 can also be used as emulsifier which allows addition of water into oil based coating systems without any loss of Gloss and hardness of the finished paint.

**SPECIFICATION:**

<table>
<thead>
<tr>
<th>Composition</th>
<th>Balanced mixture of anionic &amp; non-ionic compounds.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Yellow Liquid</td>
</tr>
<tr>
<td>Specific Gravity @ 25°C</td>
<td>1.110 (approx.)</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>pH of water solution</td>
<td>7.5 – 8</td>
</tr>
<tr>
<td>Stabilities</td>
<td>Stable in pH range of 2 to 12</td>
</tr>
<tr>
<td></td>
<td>Stable in hard water</td>
</tr>
<tr>
<td>Non Volatile Matter</td>
<td>38 ± 2 %</td>
</tr>
</tbody>
</table>

*“Physical parameters indicated here in product data sheet are typical properties and not specification limits or range.”*

The use of “PATADD DA786” is particularly recommended for heavy pigments such as red lead, barites, iron oxides, etc. as these pigments quickly form a hard deposit which often cannot be brought back into suspension. Because of its high surface activity, PATADD DA786 keeps these pigments in suspension. If slight sedimentation takes place, sediments can be stirred back into suspension without any difficulty.
METHOD OF APPLICATION:

Due to its liquid form, the incorporation of PATADD DA786 is very easy. While it can be added to the paints at any stage of manufacturing, addition of PATADD DA786, at the grinding stage is more effective.

DOSAGE:

The quantity required depends on the nature of the pigments and on the types of binders used. It is well known that lightweight pigments require less anti-settling agent than heavy pigments.

In the same way, less PATADD DA786 is required if binders are used. Binders significantly hinder the sedimentation of pigments due to the size of their molecules. The right quantity could be determined by experiments.

Over dosage should be avoided as it might cause side effects like disturbance in flow or delay in drying etc.

The recommended initial quantity is about 0.1 % to 0.25 %. This may gradually be increased if the required effect is not obtained.

Iron oxide paints require an average of 0.5 % of PATADD DA786 while certain grades require up to 1 %

Due to the great variety of compounds used in modern coatings, it is practically impossible to give exact figures or to predict the behaviour of PATADD DA786 in every formulation. After a few tests, users will easily find the exact percentage necessary for obtaining the best results.

When use as emulsifier for water incorporation suggested dosages are

0.5 -1.0% on total formulation
Advantages when used as an emulsifier:

- Practically compatible with all types of alkyd resins.
- Addition of **Patadd DA786** forms a strong water-alkyd bond resulting in longer stability.
- It imparts high viscosity to the system and thereby reduces settling.
- No rusting and water separation on storage as well as on thinning down.
- Since pigment binder ratio remains unchanged, no adverse effect on final performance of the coating.
- No reduction of gloss and hardness.
- Cost reduction

While every effort is made to provide accurate and complete information, performance of the product may vary depending upon different raw materials, formulations, test procedures and test conditions. Hence Patcham (FZC) and its representative disclaim any kind of liability.